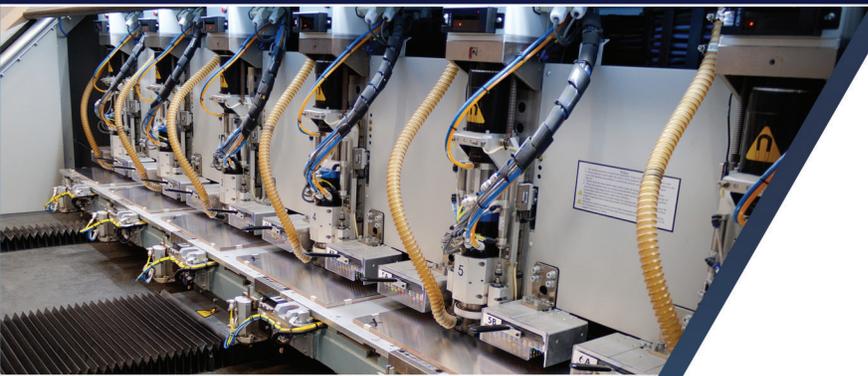




ICM[®]

CONTROLS



OEM Market



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INDUSTRIES WE SERVE



ICM CONTROLS – CROSS REFERENCE GUIDE

OEM	OEM Part #	ICM Part #	Control Type
5.2.1	CSR-U1	ICM866U	Motor Starters/Rapid Start
5.2.1	CSR-U2/U3	ICM866U	Motor Starters/Rapid Start
A-1	EAC-501-ADJ	ICM203	Delay On Break Timers
A-1	7061	ICM103	Delay On Make Timers
A-1	5893	ICM255	Fan Blower Controls
A-1	EAC-8002	ECA100-11	Line Voltage Monitors
A-1	EAC-401, 402, 403, 404	ICM492, ICM493	Line Voltage Monitors
A-1	EAC-800, EAC-8000, EAC-8002	ICM450A, ICM450A PLUS+	Line Voltage Monitors
A-1	WSX-5	ICM855	Motor Starters/Rapid Start
A-1	WSX-6	ICM856	Motor Starters/Rapid Start
A-1	EAC-701-ADJ	ICM102	Delay On Make Timers
ABB	OVRHLDDX-120	ICM530	Surge Protective Device
ABB	OVRHLDDX-277	ICM531	Surge Protective Device
ACT	FM2000	ICM325A	Head Pressure Controls
ASCO	420120S	ICM518	Split Phase Surge Protective Device
ASCO	420120Y, 420240D	ICM530	Surge Protective Device
ASCO	420240H	ICM533	Surge Protective Device
ASCO	420277Y, 420480D	ICM531	Surge Protective Device
ASCO	420347Y, 420600D	ICM532	Surge Protective Device
Bard	8201-056	ICM255	Fan Blower Controls
Bristol	241680	ICM441	Line Voltage Monitors
CAC	EDCR-3DM	ECA500-11	Line Voltage Monitors
Carlin	48245	ICM1503	Oil Burner Primary Control
Carlo Gavazzi	RSBS Series, Smooth Starter -SS230V1P16-32	ICM870-32A	Soft Start
Carlo Gavazzi	Rsmooth Starter -SS230V1P16-16	ICM870-16A	Soft Start
Carrier	325878-751	ICM282B	Furnace/Ignition Control Boards
Carrier	302075-3, CES0110017, CES0110018	ICM271	Fan Blower Controls
Carrier	CES0110019	ICM275	Fan Blower Controls
Carrier	HH84AA001, HH84AA003, HH84AA005, HH84AA009, HH84AA014, HH84AA015, HH84AA021	ICM275	Fan Blower Controls
Carrier	HH84AA010, HH84AA011, HH84AA012, HH84AA013, HH84AA020, P771-7002	ICM271	Fan Blower Controls
Carrier	CES0110057-00, CES0110057-01, CES0110057-00	ICM281	Furnace/Ignition Control Boards
Carrier	CES0110020, CES0110048	ICM281	Furnace/Ignition Control Boards
Carrier	HK42FZ017	ICM2807	Furnace/Ignition Control Boards
Carrier	HK42FZ-004, HK42FZ-007, HK42FZ-008, HK42FZ-009, HK42FZ-011, HK42FZ-013, HK42FZ-016, HK42FZ-34	ICM282B	Furnace/Ignition Control Boards
Carrier	HH84AA016	ICM281	Furnace/Ignition Control Boards
Carrier	LH33WP003/3A	ICM291	Furnace/Ignition Control Boards
Carrier	HK42FZ004, HK42FZ007, HK42FZ008, HK42FZ009, HK42FZ011, HK42FZ016	ICM2812-KIT	Furnace/Ignition Control Boards (Universal)
Coleman/Evcon/Lennox/Luxaire/York	G951ADB-1401(C), G951ADB1402, G951ADB-1403, G951AEB-1403, 265901, 265902, 539617, 52537074000, 52537077000, 031-00662, 031-00662-700, 031-01250-700, 031-01266-700, 031-01284-000, 031-01973-000, 031-09166-000, 331-01933-000, 331-01972-000, 331-09167-000, S1-03100662000, S1-03101250000, S1-03101266000, S1-03101267000, S1-03101284000, S1-03101933000, S1-03101972000, S1-03101973000, S1-03109167000, S1-33102956000, S1-33103010000,	ICM2812-KIT	Furnace/Ignition Control Boards (Universal)
Copeland	071-0376-01, 071-0376-02, 071-0397-00, 071-0397-01, 071-0424-00, 071-0424-01, 071-9800-01, 071-9800-02	ICM441	Line Voltage Monitors
Copeland	085-0160-00	ICM450A, ICM450A PLUS+	Line Voltage Monitors
Diversified	AC-100-3	ICM206	Delay On Break Timers
Diversified	AC-100-5	ICM206	Delay On Break Timers
Diversified	AC-503	ICM203	Delay On Break Timers
Diversified	AC-800	ICM102	Delay On Make Timers
Diversified	AC-2020, AC-301, AC-302	ICM450A, ICM450A PLUS+	Line Voltage Monitors
Dometic Smart Start	340582	ICM870-16A	Soft Start
Dometic Smart Start	340583	ICM870-9A	Soft Start
Eaton	SP1-240S, SP2-240S	ICM518	Split Phase Surge Protective Device
Eaton	SP1-208Y, SP1-240D, SP2-208Y, SP2-240D	ICM530	Surge Protective Device
Eaton	SP1-480Y, SP1-480D, SP2-480Y, SP2-480D	ICM531	Surge Protective Device
Eaton	SP1-600Y, SP1-600D, AP2-600Y	ICM532	Surge Protective Device
Eaton	SPD050240H1	ICM533	Surge Protective Device
Erico (Critec)	TDX50C240	ICM518	Split Phase Surge Protective Device

OEM	OEM Part #	ICM Part #	Control Type
Erico (Critec)	TDX50C277/480	ICM531	Surge Protective Device
Erico (Critec)	TDX50C120/208, TDX50C120/240D	ICM530	Surge Protective Device
Erico (Critec)	TDX50C347/600	ICM532	Surge Protective Device
Essex	Independent Relays Series 84 and g3	ICM220	Lockout Protection Relays
EVO/ECM	VCU-36-MP	ICM708	ECM Controls
EVO™/ECM	4SPD	ICM709	ECM Controls
EVO™/ECM1	ACU+-S1	ICM711	ECM Controls
Fenwal	35-725200-005	ICM2910-200-005	Gas Ignition Controls
Fenwal	35-725201-007	ICM2910-201-007	Furnace/Ignition Control Boards
Fenwal	35-725201-501	ICM2910-201-501	Furnace/Ignition Control Boards
Fenwal	35-725201-505	ICM2910-201-505	Furnace/Ignition Control Boards
Fenwal	35-725205-015	ICM2910-205-015	Furnace/Ignition Control Boards
Fenwal	35-725205-017	ICM2910-205-017	Furnace/Ignition Control Boards
Fenwal	35-725205-021	ICM2910-205-021	Furnace/Ignition Control Boards
Fenwal	35-725205-115	ICM2910-205-115	Furnace/Ignition Control Boards
Fenwal	35-725205-521	ICM2910-205-521	Furnace/Ignition Control Boards
Fenwal	35-725206-515	ICM2910-206-515	Furnace/Ignition Control Boards
Fenwal	35-725405-013	ICM2910-405-013	Furnace/Ignition Control Boards
Fenwal	35-605939-337	ICM2919	Furnace/Ignition Control Boards
Fenwal	06-236879-002	ICM6700	Gas Ignition Controls
Fenwal	35-525900-113	ICM6701	Gas Ignition Controls
Gemline	1C213	ICM102, ICM103	Delay On Make Timers
Gemline	1C310	ICM102	Delay On Make Timers
Generac	G0073000	ICM518	Split Phase Surge Protective Device
Goodman	B1226008, PCBDM101(S)	ICM318	Defrost Controls
Goodman	B1370735S, PCBFM131S	ICM277	Fan Blower Controls
Goodman	PCBFM103, PCBFM103S	ICM256	Fan Blower Controls
Goodman	B18099-06, B18099-08, B18099-10, B18099-13, B18099-13S	ICM280	Furnace/Ignition Control Boards
Goodman	PCBBF110/S, PCBBF123/S, 0130F00005/S, PCBBF112/S, B18099-26/S	ICM2811	Furnace/Ignition Control Boards
Goodman	PCBBF136, PCBBF140	ICM2810	Furnace/Ignition Control Boards
Goodman/Amana	10207701, 10207704, 10207706, 10207710, 10207714, 10207717, 10207718, 10207719, 10207720, 0130F00005(S), 0130F00006(S), 102077-02, 102077-03, 102077-04, 102077-09, 10207720S, B1809926(S), PCB00109, PCBBF109, PCBBF110(S), PCBBF112(S), PCBBF122(S), PCBBF123(S), PCBBF132(S), PCBBF134, PCBBF135, PCBBF136, PCBBF138	ICM2812-KIT	Furnace/Ignition Control Boards (Universal)
Goodman	PCBAB123-D	ICM2920	Furnace/Ignition Control Boards
Hoffman	880-ECM(10)SSHP	ICM713	ECM Controls
Hoffman	800, 800A, 800AA, 814-50, 816-10	ICM325A	Head Pressure Controls
Honeywell	R8184G4009, R8184G1138, R8184G1427, R8184G4025	ICM1503	Oil Burner Primary Control
Honeywell	R8184G4066, R8184G1161, R8184G1294	ICM1501	Oil Burner Primary Control
Honeywell	R8184G4074, R8184G1179, R8184G1302, R8184G4033	ICM1502	Oil Burner Primary Control
Honeywell	TH6110D1005, TH6110D1021	SC5010	Thermostats (7-Day Programmable)
Honeywell	TH6220D1002, TH6220D1028	SC5811	Thermostats (7-Day Programmable)
Honeywell	T8600D2028, TH4110D1007, TH2110D1099	SC5010	Thermostats (7-Day Programmable)
Honeywell	T8400, T8401 SERIES	SC2010L	Thermostats (Non-Programmable)
Honeywell	T8775A1009, TH1100D1001	SC1600L	Thermostats (Non-Programmable)
Honeywell	TH1100D1000, TH3110D1008	SC2010L	Thermostats (Non-Programmable)
Honeywell	S8610U	ICM2918	Gas Ignition Controls
Hyper Engineering	Sure Start	ICM870-9A/16A/32A	Soft Start
Ice-a-matic	TD3001A	ICM103	Delay On Make Timers
ICM	W1001-4	ICM318	Defrost Controls
ICP	1171166	ICM291	Furnace/Ignition Control Boards
ICP	1176943	ICM282B	Furnace/Ignition Control Boards
IEC	E025-71521506	ICM712	ECM Controls
Intermatic	AG3000	ICM517A	Single Phase Surge Protection
Intermatic	AG2401C3, IG1200RC3, IG1240RC3, IG3240RC3	ICM518	Split Phase Surge Protective Device
Intermatic	AG2403C3, LSF13D1DG1	ICM533	Surge Protective Device
Intermatic	AG4803C3, LSF13Y2DG1	ICM531	Surge Protective Device
Intermatic	AG6503, LSF13Y3DG1	ICM532	Surge Protective Device
Intermatic	AG2083C3 LSF13Y1DG1	ICM530	Surge Protective Device
Intermatic/Grasslin	010-0011B, DT040, DT140, DTAV40, DTAV40M, DT-B, DTMV, DTSX	ICM550, ICM550-ENC	Defrost Controls
Intermatic/Grasslin	010-0011B, DT040, DT140, DTAV40, DTAV40M, DT-B, DTMV, DTSX	ICM550, ICM550-ENC	Multi-Functional Timers

OEM	OEM Part #	ICM Part #	Control Type
Jackson Systems	CL-45, CL-55, CL-75 (COOL)	ACH045, ACH055, ACH075	Thermostats (Temporary)
Jackson Systems	TS-60, TS-65 & TS-70 (HEAT)	ACH060, ACH065, ACH070	Thermostats (Temporary)
Johnson Controls	P66BAB/BAD	ICM325A (FOR 2 TEMP OR 2 PRES INPUTS)	Head Pressure Controls
Kickstart	KS1	ICM866U	Motor Starters/Rapid Start
Kickstart	T05, KS8	ICM866U	Motor Starters/Rapid Start
Lennox	All BCC1, BCC2, BCC3 Circuit Boards, Including 48K98	ICM289	Furnace/Ignition Control Boards
Lennox	10M9301, 12L6901, 32M8801, 56L8401, 24L8501, 63K8901, 97L4801, 100925-01, 100925-03, 17W9201, 23W5101, 30W2501, 69M0801, 69M1501, 83M00	ICM2813	Furnace/Ignition Control Boards
Lennox	1214201, 100925 (-01, -02, -03), 10M93, 10M9301, 12L6901, 17W92, 17W9201, 23W51, 23W5101, 30W25, 30W2501, 32M8801, 56L84, 56L8401, 69M08, 69M0801, 69M15, 69M1501, X4459, X445901,	ICM2812-KIT	Furnace/Ignition Control Boards (Universal)
Leviton	55240-ASA	ICM518	Split Phase Surge Protective Device
Leviton	55208-ASA	ICM530	Surge Protective Device
Leviton	55480-ASA	ICM531	Surge Protective Device
Mars	32395	ICM175	Bypass Timers
Mars	32001, 32387, 32392	ICM203	Delay On Break Timers
Mars	32382	ICM206	Delay On Break Timers
Mars	32019, 32391, 32367	ICM102	Delay On Break Timers
Mars	32394, 32396	ICM103	Delay On Break Timers
Mars	32574	ICM255	Fan Blower Controls
Mars	32536	ICM401A, ICM402	Line Voltage Monitors
Mars	PFM-2000	ICM450A	Line Voltage Monitors
Mars	37300, 37302, 37304, 37306, 37322	ICM441	Motor Protection
Mars	83916	ICM495-30A	Surge Protective Device
Mars	83915	ICM495-60A	Surge Protective Device
Mars	32702, 35702	ICM856	Motor Starters/Rapid Start
Mars	32781	ICM857	Motor Starters/Rapid Start
Mars	83905	ICM518	Split Phase Surge Protective Device
Mars	32701, 35701	ICM855	Motor Starters/Rapid Start
Micro-Air	Easy Start	ICM870-9A/16A/32A	Soft Start
Mitsubishi	MU09NW, MUH09NW, MU12NN, MU15NN, MU17NN, MUM18NW, MUM30NN, MUM30NN2	ICM325A	Head Pressure Controls
Modine	5H79749	ICM2911	Furnace/Ignition Control Boards
Motorsaver	455	ICM450A, ICM450A PLUS+	Line Voltage Monitors
N/A	N/A	ICM6202	Fan Coil Relay Control Boards
Nassar	PM-31	ECA500-11	Line Voltage Monitors
Network RV	Soft Start	ICM870-9A/16A	Soft Start
Nordyne	624631	ICM2805A	Furnace/Ignition Control Boards
Nordyne	624557, 624564, 624591, 624628, 902378, 902696, 903106, 624631(A), 624631(A), 710128A,	ICM2812-KIT	Furnace/Ignition Control Boards (Universal)
Paragon	8041, 8045, 8047, 8141, 8143, 8145, 8245, 8247	ICM550, ICM550-ENC	Defrost Controls
Paragon	8041, 8045, 8047, 8141, 8143, 8145, 8245, 8247	ICM550, ICM550-ENC	Multi-Functional Timers
Precision	6041, 6045, 6047, 6141, 6145	ICM550, ICM550-ENC	Defrost Controls
Precision	6041, 6045, 6047, 6141, 6145	ICM550, ICM550-ENC	Multi-Functional Timers
Qwik products	QWIKSWAPX1	ICM715	ECM Controls
Qwik Products	QWIKSWAPX3	ICM716	ECM Controls
Ranco	E31	ICM325A	Head Pressure Controls
RectorSeal	RSH-50 96417	ICM495-30A	Surge Protective Device
RectorSeal	RSH-50 96419	ICM495-60A	Surge Protective Device
Reznor	195265	ICM2907	Gas Ignition Controls
Reznor	257009	ICM2904	Gas Ignition Controls
Reznor	257010	ICM2905	Gas Ignition Controls
Reznor	195573	ICM2906	Gas Ignition Controls
Rheem	62-23599-01, 62-23599-02, 62-23599-03, 62-23599-04, 62-23599-05	ICM2909	Furnace/Ignition Boards
Rheem	1157-100, 1157-110, 1157-120, 1157-121, 47-102684-01, 47-102684-02, 47-102684-03, 47-102684-04, 47-102684-08, 47-102685-02, 47-102685-04, 47-102685-05, 47-102685-06 47-102685-07, 47-21517-22, DDL-122131-2RH	ICM3000	Demand Defrost Controls
Rheem	42-22515-01, 42-22515-02, 42-22515-03	ICM255	Fan Blower Controls
Rheem	1157-100, 1157-110, 1157-120, 1157-121, 47-102684-01, 47-102684-02, 47-102684-03, 47-102684-04, 47-102684-08, 47-102685-02, 47-102685-04, 47-102685-05, 47-102685-06, 47-102685-07, 47-21517-22, DDL-122131-2RH	ICM3000	Defrost Controls
Rheem	62-24140-04	ICM292A	Furnace/Ignition Control Boards
Rheem	62-24084-82	ICM288	Furnace/Ignition Control Boards
Rheem/Ruud	695-200, 62-22694-XX, 62-22732-XX, 62-24044-XX, 62-24045-01, 62-24046-01, 62-24084-82, 62-24268 (-01, -02, -03)	ICM2812-KIT	Furnace/Ignition Control Boards (Universal)
Robertshaw	3310-072	ICM203	Delay On Break Timers

OEM	OEM Part #	ICM Part #	Control Type
Robertshaw	3310-183	ICM206	Delay On Break Timers
Robertshaw	3310-305	ICM206	Delay On Break Timers
Robertshaw	3310-068	ICM103	Delay On Break Timers
Robertshaw	695-100	ICM271	Fan Blower Controls
Robertshaw	695-101	ICM275	Fan Blower Controls
Robertshaw	8625-1	ICM518	Split Phase Surge Protective Device
Robertshaw	300-229, 9615	SC5811	Thermostats (7-Day Programmable)
Robertshaw	8625-1	SC5811	Thermostats (7-Day Programmable)
Robertshaw	RS5110, RS6110	SC5010	Thermostats (7-Day Programmable)
Robertshaw	300-206	SC2010L	Thermostats (Non-Programmable)
Robertshaw	300-204	SC1600L	Thermostats (Non-Programmable)
Robertshaw	8400-1, 9400, 9500, RS2110	SC2010L	Thermostats (Non-Programmable)
Robertshaw	300-229, 9615	ICM518	Split Phase Surge Protective Device
Schneider Square	Motor Logic Plus 9065	ECA500-11	Line Voltage Monitors
SEL	701	ECA500-11	Line Voltage Monitors
Siemens	TPS3B	ICM533	Surge Protective Device
Siemens	TPS3D, TPS3C	ICM530	Surge Protective Device
Siemens	TPS3E, TPS3F	ICM531	Surge Protective Device
Siemens	TPS3L, TPS3G	ICM532	Surge Protective Device
Siemens	TPS3A	ICM518	Split Phase Surge Protective Device
Snyder General/ICP	1395336	ICM255	Fan Blower Controls
Square D	SDSA2040, SDSA2040D	ICM530	Surge Protective Device
Square D	SDSA2040D	ICM533	Surge Protective Device
Square D	SDSA3650, SDSA3650D	ICM532	Surge Protective Device
Square D	SDSA4040, SDSA4040D	ICM531	Surge Protective Device
SSAC	QLM, QLV	ICM450A, ICM450A PLUS+	Line Voltage Monitors
Suburban	35-533900-113, 521099	ICM6700	Furnace/Ignition Control Boards
Suburban	35-533900-113, 520814	ICM6701	Furnace/Ignition Control Boards
Suburban	521099, 35-533900-113	ICM6700	Gas Ignition Controls
Suburban	35-525900-113, 520814	ICM6701	Gas Ignition Controls
Supco	TD32	ICM175	Bypass Timers
Supco	TD72, TD73	ICM203	Delay On Break Timers
Supco	TD73W	ICM203F	Delay On Break Timers
Supco	TD74	ICM206	Delay On Break Timers
Supco	TL243	ICM206	Delay On Break Timers
Supco	TL245	ICM206	Delay On Break Timers
Supco	TD69	ICM102	Delay On Make Timers
Supco	TD69W	ICM102F	Delay On Make Timers
Supco	TMF-19, TMF-80	ICM103	Delay On Make Timers
Supco	TPMP2	ICM401A, ICM402	Line Voltage Monitors
Supco	SPP-5	ICM855	Motor Starters/Rapid Start
Supco	SPP-5E	ICM866U	Motor Starters/Rapid Start
Supco	SPP-6	ICM856	Motor Starters/Rapid Start
Supco	SPP-6E	ICM866U	Motor Starters/Rapid Start
Supco	RC0210	ICM859	Motor Starters/Rapid Start
Supco	RC0410	ICM858	Motor Starters/Rapid Start
Supco	RC0810	ICM857	Motor Starters/Rapid Start
Supco	SCMPLUS, SCM150	ICM517A	Single Phase Surge Protection
Supco	SUPR, APR5	UMSR50	Universal Motor Starting Relays
Supco	SPP-8, SPP-8E	ICM866U	Motor Starters/Rapid Start
SymCom	601, 601-575, 455, 455-575, 455-480R	ECA100-11	Line Voltage Monitors
SymCom/MotorSaver	777 Series, 520CS-115, 520CP	ECA500-11	Line Voltage Monitors
Telemecanique	LT6	ECA500-11	Line Voltage Monitors
Texas Instruments	41F-5	ICM280	Furnace/Ignition Control Boards
Texas Instruments	15AA1600B, 15AA1600C, 15AA1603B, 15AA1603C, 31AA1600E, 31AA1606E	ICM441	Motor Protection
Texas Instruments	41F-5, 61F3, 6DT(-1, -2), 350486, 350836	ICM2812-KIT	Furnace/Ignition Control Boards (Universal)
Time Mark	265	ICM450A, ICM450A PLUS+	Line Voltage Monitors
Time Mark	274, 2744, 272, 2722	ECA100-11	Line Voltage Monitors
Time Mark	2742	ECA500-11	Line Voltage Monitors
Trane	D330927P01, D330930P01, D330934P01, D340035P01, D340774P01, D341213P01, D341396P01	ICM2812-KIT	Furnace/Ignition Control Boards (Universal)
Trane	D674711P01	ICM2913	Furnace/Ignition Control Boards
Trane	D674712P01	ICM2914	Furnace/Ignition Control Boards
Trane	D674713P01	ICM2915	Furnace/Ignition Control Boards
Trane	D674712P02	ICM2916	Furnace/Ignition Control Boards



OEM	OEM Part #	ICM Part #	Control Type
Trane/American standard	CNT02789, CNT02891, CNT03076, CNT03798, CNT03799, CNT05164, CNT05165, D341122P01, D341235P01, D341235P03, D341396P04, D341396P05, D341396P03	ICM2812-KIT	Furnace/Ignition Control Boards (Universal)
United TCH	1003-638A	ICM2904	Gas Ignition Controls
United TCH	1003-514	ICM2905	Gas Ignition Controls
United TCH	1097-211	ICM2906	Gas Ignition Controls
United TCH	1097-210	ICM2907	Gas Ignition Controls
United Technologies	1012-83-9336A, 1012-83-9337A, 1012-925 (A,B,C), 1012-933D	ICM2812-KIT	Furnace/Ignition Control Boards (Universal)
UTEC	1012-933D	ICM280	Furnace/Ignition Control Boards
Wagner	DTP-3	ECA100-11	Line Voltage Monitors
Wagner/Diversitech	ADB-1	ICM203	Delay On Break Timers
Wagner/Diversitech	ADB-2	ICM203F	Delay On Break Timers
Wagner/Diversitech	ADM-1	ICM102	Delay On Make Timers
Wagner/Diversitech	ADM-2	ICM102F	Delay On Make Timers
Wagner/Diversitech	DSP-1	ICM492	Line Voltage Monitors
Wagner/Diversitech	DSP-1	ICM493	Line Voltage Monitors
Wagner/Diversitech	DTP-3, WPC-800	ICM450A, ICM450A PLUS+	Line Voltage Monitors
Wagner/Diversitech	DST-5	ICM855	Motor Starters/Rapid Start
Wagner/Diversitech	DST-6	ICM856	Motor Starters/Rapid Start
Whirlpool	8068142, 8068561, 8068563, 99958174, 99958175	ICM2812-KIT	Furnace/Ignition Control Boards (Universal)
White Rodgers	47D43-101-90, 47D43-111-01, 47D43-111-02, 47D43-111-03, 47D43-111-04, 47D43-811	ICM3000	Defrost Controls
White Rodgers	47D43-101-90, 47D43-111-01, 47D43-111-02, 47D43-111-03, 47D43-111-04, 47D43-811	ICM3000	Demand Defrost Controls
White Rodgers	50A55-743, 50A55-289, 50T55-289	ICM2811	Furnace/Ignition Control Boards
White-Rodgers	50A65-120, 50A65-121, 50A62-120, 50A62-121, 50A62-820, 21D83M-843, 50A66-122, 50A66-123	ICM2813	Furnace/Ignition Control Boards
White-Rodgers	50M56U-843	ICM2812, ICM2812-KIT	Furnace/Ignition control boards
White-Rodgers	50T35-730, 50T35-743	ICM280	Furnace/Ignition Control Boards
White-Rodgers	668-401	ICM1503	Oil Burner Primary Control
White-Rodgers	1F80-0471, 1F80-0671, 1F97-1277	SC5010	Thermostats (7-Day Programmable)
White-Rodgers	1F81-261, 1F85-0422	SC5811	Thermostats (7-Day Programmable)
White-Rodgers	1F86-344, 1F86-0244	SC2010L	Thermostats (Non-Programmable)
White-Rodgers	MECHANICAL 1F30-321, 1C20-102	SC1600L	Thermostats (Non-Programmable)
White-Rodgers	50A50-110, 50A50-111, 50A50-112, 50A50-113, 50A50-130, 50A50-131, 50A50-142, 50A50-143, 50A50-205, 50A50-206, 50A50-207, 50A50-208, 50A50-209, 50A50-210, 50A50-215, 50A50-216, 50A50-229, 50A50-230, 50A50-240, 50A50-241, 50A50-245, 50A50-285, 50A50-286, 50A50-288, PART NUMBER, 50A50-295, 50A50-296, 50A50-298, 50A50-405, 50A50-406, 50A50-407, 50A50-408, 50A50-438, 50A50-471, 50A50-472, 50A50-473, 50A50-474, 50A50-475, 50A50-571, 50A55-143, 50A55-241, 50A55-245, 50A55-250, 50A55-285, 50A55-286, 50A55-288, 50A55-289, 50A55-3797, 50A55-438, 50A55-474, 50A55-476, 50A55-480, 50A55-486, 50A55-571, 50A55-743, 50A55-843, 50A56-242, 50A56-243, 50A56-956, 50A65-120, 50A65-121, 50A65-143, 50A65-288, 50A65-289, 50A65-474, 50A65-475, 50A65-476, 50A65-5165, 50A65-843, 50A66-122, 50A66-123, 50A66-743, 50M56-281, 50M56-289, 50M56-291, 50M56-743, 50T35-730, 50T35-743, 50T55-288, 50T55-289	ICM2812-KIT	Furnace/Ignition Control Boards (Universal)
Camstat	IPI-24-00	ICM2918	Ignition Control Module (Universal)
Fenwal	05-203025-005, 05-203026-005	ICM2918	Ignition Control Module (Universal)

OEM	OEM Part #	ICM Part #	Control Type
Honeywell	S8610U, S86A1001, S86A1019, S86A1027, S86A1035, S86B1009, S86B1017, S86B1025, S86C1007, S86C1015, S86C1031, S86C1049, S86C1056, S86D1005, S86D1021, S86E1002, S86E1010, S86E1028, S86E1036, S86E1044, S86E1051, S86E1069, S86E1077, S86E1101, S86E1119, S86E1127, S86F1000, S86F1018, S86F1026, S86F1042, S86F1059, S86F1067, S86F1075, S86F1083, S86F1091, S86G1008, S86G1016, S86G1032, S86G1057, S86G1073, S86G1006, S86H1022, S86H1048, S86H1089, S86H1097, S86H1105, S86H1121, S86H1147, S90A1005, S90B1003, S90B1011, S8600A1001, S8600B1009, S8600C1015, S8600F1000, S8600F1034, S8600F1042, S8600H1006, S8600H1022, S8600H1048, S8600H1055, S8600H1089, S8600H1105, S8600M1005, S8600M1013, S8610A1009, S8610B1007, S8610B1015, S8610C1005, S8610F1008, S8610F1016, S8610F1024, S8610F1032, S8610H1012, S8610H1038, S8610H1046, S8610H1053, S8610H1079, S8610M1003, S8610M1029, S8620H1028	ICM2918	Ignition Control Module (Universal)
HSC	1003-3, 1003-300	ICM2918	Ignition Control Module (Universal)
Penn-Johnson	CSA35A-617R, CSA35A-618R, CSA42A-600R, CSA42A-601R, CSA42A-603R, CSA42A-604R, CSA43A-600R, CSA44A-600R, CSA45A-601R, CSA45A-602R, CSA46A-600R, CSA48A-600R, CSA49A-600R, CSA49A-605R, CSA51A-601R, CSA52A-600R, G60AA-1, G60AAG-1, G60AAG-3, G60AAG-4, G60AAG-5, G60AAG-6, G60CAA-1, G60CAA-3, G60CAG-1, G60CAG-2, G60CAG-3, G60CAG-4, G60CAG-5, G60CAG-6, G60CAG-7, G60CAG-8, G60CAG-9, G60CBA-1, G60CBA-3, G60CBG-1, G60CBG-10, G60CBG-11, G60CBG-14, G60CBG-16, G60CBG-17, G60CBG-3, G60CBG-4, G60CBG-9, G60CCA-1, G60CCG-1, G60CPG-1, G60DBG-1, G60DCG-1, G60DCG-2, G60PAG-1, G60PAG-2, G60PAG-3, G60PAG-4, G60PAG-5, G60PAG-6, G60PAI-1, G60PAK-1, G60PAK-2, G60PFH-1, G60PFH-2, G60PEL-1, G60PFQ-1, G60PVL-1, G60QAG-2, G60QAG-3, G60QAK-1, G60QBG-1, G60QBG-2, G60QBG-3, G60QBG-4, G60QBG-5, G60QBG-6, G60QBG-7, G60QBG-8, G60QBG-9, G60QBH-1, G60QBK-1, G60QBK-3, G60QBL-1, G60QBL-2, G60QCG-1, G60QC-1, G60QCL-1, G60QDG-1, G60QFL-1, G60QHL-1, G60QJL-1, G60QLG-1, G60QPL-1, G60QRH-1, G60QRL-1, G60QRL-2, G60QRL-3, G60QSL-1, G60QTH-1, G60QTL-1, G60RAG-1, G60RAK-1, G60RBG-1, G60RBG-2, G60RBG-3, G60RBK-1, G60RBK-2, G60RCG-2, G60RCJ-1, G60RDG-1, G60RDK-1, G60RGL-1, G60RHL-1, G60RHP-1, G60RPL-1, G60RSL-1, G60ZAG-1, G65BBG-1, G65BBG-2, G65BBG-3, G65BBG-4, G65BBG-5, G65BBG-6, G65BBG-7, G65BBG-8, G65BBM-1, G65BBM-2, G65BBM-3, G65BBM-4, G65BCG-1, G65BCM-1, G65BFG-1, G65BFM, G65BKG-1, G65BKG-2, G65BKG-3, G65BKM-1, G65BKM-2, G65BKM-3, G65DBG, G65DBM-1, G65DBM-3, G65DCM-1, G65DFG, G65DFM-1, G65DKG, G65DKM, G65FBG, G65FFG, G65FKG, G66AG-1, G66BG-1, G66MG-1, G66NG-1, G67AG-3, G67AG-4, G67AG-7, G67AG-8, G67BG-2, G67BG-3, G67BG-4, G67BG-5, G67MG-1, G67MG-4, G67NG-2, G600AX-1, G600AY-1, G600MX-1, G600NX-1, G600RX-1, G670AW-1, G770MGA-1, G770MGA-2, G770MGC-1, G770MGC-2, G770MGC-3, G770MHA-1, G770MHA-2, G770NGC-4, G770NGC-5, G770NGC-6, G770NGC-7, G770RGA-1, G770RHA-1, G770MHA-2, G770MHC-1, G770MHA-1, G770NHC-1, G770RHA-2	ICM2918	Ignition Control Module (Universal)
Robertshaw	780-715, 780-735, 780-737, SP715A, SP715A, SP735, SP735D, SP735L, US1 715U	ICM2918	Ignition Control Module (Universal)

TIME DELAY RELAYS

DELAY ON MAKE TIMERS

Ideal for compressor staging and stagger starting multiple motors and other equipment. Helps to reduce power surges. When power is applied to the input, the time delay begins. After the time delay is complete, the load energizes.

ICM102, ICM102F

Delay on Make Timer (ICM102),
With 6" Wire Leads (ICM102F)



FEATURES/BENEFITS

- Universal voltage operation
- Higher 1.5 amp power rating
- Knob-adjustable time delays
- Works with anticipator-type thermostats
- One model replaces many in field
- Ideal for compressor staging
- Simple 2-wire hookup
- **"F"** suffix denotes **6"** wire leads

SPECIFICATIONS

- **Voltage:** 18-240 VAC
- 1.5 amps • 15 amp inrush
- 40 mA holding current
- **Frequency:** 50/60 Hz
- **Adjustable delay:** .03-10 min (1.8-600 secs)
- **Voltage drop:** 2.5 V @ 1.5 amps
- **Dimensions:** 2.00" x 2.00" x 1.25"

REPLACES

ICM102

- **A-1:** EAC-701-ADJ
- **Diversified:** AC-800
- **Gemline:** 1C310, 1C213
- **Mars:** 32019, 32391, 32367
- **Supco:** TD69
- **Wagner/DiversiTech:** ADM-1

ICM102F

- **Supco:** TD69W
- **Wagner/DiversiTech:** ADM-2

ICM103

Delay on Make Timer



FEATURES/BENEFITS

- Highly precise digital timing
- Switch-settable time delays
- Ideal for ice machine applications
- Universal voltage operation
- Repeat accuracy .5% over voltage and temperature range

SPECIFICATIONS

- **Voltage:** 18-240 VAC
- 1 amp • 10 amp inrush
- 40 mA holding current
- **Frequency:** 50/60 Hz
- **Switch-settable delays:** Range from 1-1,023 sec.
- **Voltage drop:** 2.5 V @ 1 amp
- **Dimensions:** 2.00" x 2.00" x 1.25"

REPLACES

- **A-1:** 7061
- **Gemline:** 1C213
- **Ice-O-Matic:** TD3001A
- **Mars:** 32394, 32396
- **Robertshaw:** 3310-068
- **Supco:** TMF-19, TMF-80

ICM104

Delay on Make Timer



FEATURES/BENEFITS

- Highly precise digital circuitry
- High power, SPDT relay output
- Input to output isolation
- Works with anticipator-type thermostats
- Repeat accuracy .5% over voltage and temperature range
- Rugged, compact package

SPECIFICATIONS

- **Control voltage:** 18-30 VAC
- **Frequency:** 50/60 Hz
- **Output:**
 - **N.O.:** 20 amps @ 240 VAC
 - **N.C.:** 10 amps @ 240 VAC
 - **Form:** SPDT, 1 form C
 - **Knob-adj. time delay:** 10-1,000
- **Dimensions:** 2.00" x 3.00" x 1.25"

REPLACES

- **Mars:** 32394/32398



UFPT-2 & UFPT-5

Universal Time Delay Relays



ICM-UFPT-2



ICM-UFPT-5

FEATURES/BENEFITS

- Universal input voltage 24 -240VAC
- 40ma min load requirement (2-wire only)
- Reduce truck stock inventory
- Includes a 5 Amp dry contact output relay for controlling a load directly - no minimum load requirement (5-wire only)
- Compatible with over 85 legacy ICM timers
- NFC technology allows for the user to change timer application on the fly using a smart phone to set up all functionality of the timer including mode and delay time.
- Installation instructions, wiring diagrams, and timing diagrams conveniently displayed on the App
- Easy installation
- Increased digital accuracy

USES NEAR FIELD COMMUNICATION IN CONJUNCTION WITH A SMART PHONE APP TO ALLOW THE USER TO SELECT FROM SIX DIFFERENT TIMER MODES

- On delay
- Off delay (5-wire model only)
- Interval
- Anti-Short Cycle
- Repeat Cycle
- Single shot (5-wire model only)

NEW UNIVERSAL CONTROLS VIA NFC TECHNOLOGY



Scan QR code for the Cross Reference Guide



MOTOR PROTECTION CONTROLS

3-PHASE LINE VOLTAGE MONITORS • FULL PERFORMANCE

ICM's full performance line voltage monitors offer complete system protection by monitoring both the line (front) and load (back) side of the system including the power, motor and contactor lines. In addition, an integral "delay on break timer" guards against rapid short cycling at both the control circuit and the 3-phase lines. Provides highly reliable protection for your valuable equipment.

ICM450A & ICM450A PLUS+

Programmable 3-Phase Line Voltage Monitors



ICM450A



ICM450A PLUS+

FEATURES/BENEFITS

- Backlit LCD
- Simultaneous 3-phase true RMS voltage monitoring
- Factory calibrated
- 3-phase voltages simultaneously displayed on LCD
- Fault memory
- Fault monitoring: High / low voltage, voltage unbalance, phase loss, phase reversal
- Real time clock, date and time stamped events (ICM450A PLUS+ only)
- Simple configuration
- Fully adjustable variables
- Modbus RS485 communication port (ICM450A PLUS+ only)
- LED indicators
- Common 1/4" quick connect terminations
- English or Spanish menu options

SPECIFICATIONS

INPUT

- Line voltage: Universal, 190-600 VAC
- Frequency: 50-60 Hz
- Load side monitoring: Optional
- Voltage: 18-240 VAC

OUTPUT

- Type: Relay, SPDT
- Voltage: 277 VAC @ 6A maximum

CONTROL OPERATING TEMPERATURE

- Operating temperature: -40°F to +149°F (-40°C to +65°C)
- Storage temperature: -40°F to +185°F (-40°C to +85°C)

MECHANICAL

- Mounting: Surface mount using (2) #8 screws
- Terminations: 1/4" quick connects
- Weight: 12 ounces (341 grams)
- ModBus: RS485 Communication (ICM450A plus+)
- Dimensions: 6.50" x 4.75" x 1.09"

ORDERING INFORMATION

- ICM450A: Supersedes ICM450
- ICM450A PLUS+: Supersedes ICM450, ICM455

REPLACES

- A-1: EAC-800, EAC-8000, EAC-8002
- Copeland: 085-0160-00
- Diversified: AC-2020, AC-301, AC-302
- Mars: PFM-2000 • Motorsaver: 455
- SSAC: QLM, QLV • Time Mark: 265
- Wagner/DiversiTech: DTP-3, WPC-800



PHONE: 1-800-365-5525 FAX: 315-233-5276 WEB: WWW.ICMCONTROLS.COM

All features and specifications are subject to change without notice.

3-PHASE MOTOR PROTECTORS

ICM443

3-Phase Motor Protection



FEATURES/BENEFITS

- Protects against over temperature in motor windings
- Uses up to four (4) 100 Ohm thermistors in series

SPECIFICATIONS

- **3-Phase Input Voltage:** 200-575 VAC
- **Frequency:** 50/60 Hz
- **Voltage unbalance:** Adjustable: 2-25%
- **Control:** 24 VAC
- **Heavy duty SPST relay output:** 10 amps, 250 VAC
- **Thermistors:** Four (4) 100Ω thermistors in series
- **Relay rating:** 250 VAC at 10 A
- **Dimensions:** 3.00" x 3.20" x 1.35"

SINGLE PHASE VOLTAGE MONITORS

ICM492

Single Phase Digital Line Voltage Monitor



FEATURES/BENEFITS

- Protects against over and under voltage, and rapid short cycling caused by transient faults and power interruptions
- Easy-view, backlit digital display
- Adjustable voltage set point
- Adjustable anti-short cycle time delay
- Adjustable response time
- Control mode (optional)
- 5-fault memory
- Universal line voltage input
- Heavy duty SPDT relay output
- Universal control voltage input (for integrating a thermostat)

SPECIFICATIONS

User adjustable settings:

- **Line voltage set point:** 80-300 VAC
- **Anti-short cycle time delay:** 0-720 seconds
- **Over/under voltage setting:** 5-25%
- **Control mode:** ON and OFF
- **Response time:** 0.1-10 seconds
- **Line voltage:** 80-300 VAC
- **Frequency:** 50/60 Hz
- **Accuracy:** ±2%
- **Low power consumption:**
 - Maximum 50 mA @ 120 VAC
 - Maximum 100 mA @ 240 VAC
- **Control voltage:** 18-240 VAC
- **Relay type:** Dry relay contacts
- **Form:** SPDT
- **Relay contact ratings:**
 - **N.C. contacts:** 10A resistive @ 277 VAC
 - **N.O. contacts:** 10A resistive @ 277 VAC
- **Dimensions:** 3.00" x 3.20" x 1.35"

REPLACES

- **Wagner/DiversiTech:** DSP-1

ICM493

Single Phase Line Monitor with Built-In Surge Suppression



FEATURES/BENEFITS

- Protects against over and under voltage, rapid short cycling caused by transients, and high-power surges
- Fault history feature records and retains the five most recently occurred faults in non volatile memory
- Ideal for mini-splits or other condensing units
- Easy to view, backlit digital display
- Bank of five L-L surge arresters
- Built-in 40A contactor
- NEMA Type 3R rated metal enclosure for outdoor use
- Easy installation and setup

SPECIFICATIONS

- **Voltage set point:** 200-240 VAC
- **Over/under voltage setting:** 5% - 10%, adjustable
- **Anti-short cycle delay:** 0.5-10 min.
- **# of surge arresters required for operation:** 0-5
- **Accuracy:** +/- 2%, user calibration
- **Contactor ratings:** 40A FLA, 240A LRA
- **Number of trials:** 1-5, auto
- **Line voltage:** 195-264 VAC
- **Frequency:** 50/60 Hz
- **Type:** Contactor, 2-pole
- **Dimensions:** 8.00" x 8.25" x 4.30"

ICM493-60A

Single Phase Line Monitor with Built-In Surge Suppression



FEATURES/BENEFITS

- Protects against over and under voltage, rapid short cycling caused by transients, and high-power surges
- Fault history feature records and retains the five most recently occurred faults in non volatile memory
- Ideal for mini-splits or other condensing units
- Easy to view, backlit digital display
- Bank of five L-L surge arresters
- Built-in 60A contactor
- NEMA Type 3R rated metal enclosure for outdoor use
- Easy installation and setup

SPECIFICATIONS

- **Input:** 195-264 VAC, 50/60Hz
- **Voltage:** 240 VAC
- **FLA:** 60A, **LRA:** 360A
- **Operating/storage/LCD temperature:** -40°F to 167°F
- **Enclosure:** Weather resistant, NEMA 3R rated for outdoor installation
- **ASC time delay:** 0.5-10 minutes
- **# of trials:** 1-5, auto,
- **# of movistors:** 0-5
- **Dimensions:** 8.00" x 10.00" x 6.00"



COMMON CAUSES OF POWER SURGES:

- Lightning storms
- Downed power lines
- Substandard / incorrect wiring
- Power outages/system recovery grid overload
- Large appliances turning On/Off
- Old electrical components
- Short circuits
- Loose wiring



ICM SURGE PROTECTIVE DEVICES



Why do you need protection?

All homes are constantly under attack from power surges and spikes, even though they may not always be apparent. These energy irregularities can be caused from just about anything, including weather, poor wiring, old parts, not to mention an aging power grid that has difficulty handling today's energy demands. Over time, these repeated energy surges will wear down your equipment and reduce its life expectancy. It is common for homeowners to place surge protectors on their televisions, personal computers and appliances. However, people often forget about their HVAC system, which represents your home's most valuable electronic investment.

Why ICM Controls?

You can't see the harmful surges and transients in your power lines, but ICM's products can! For more than 30 years, ICM Controls has been a recognized leader for manufacturing controls that protect your valuable HVAC equipment against today's most common and severe power threats. From basic surge protective devices to line voltage monitors to combination devices, ICM Controls has you covered. Consult your local HVAC contractor to determine which control is right for your application.

Located in North Syracuse, NY, ICM's quality products are proudly manufactured in the USA.

SURGE PROTECTION DEVICES

SINGLE-PHASE SPDs

ICM517A

Surge Protection Device



FEATURES/BENEFITS

- Built to withstand the high impact of a major surge event
- Constructed in a robust Cast Aluminum enclosure for maximum durability
- Featuring a redesigned rivet sealed molded case with an internal gasket
- Nema Type 4X rated for indoor/outdoor installation
- Featuring a thinner more compact profile than previous versions
- Updated to the latest addition of UL standards
- Withstands effects of prolonged UV exposure better than ABS plastics
- UL Rated Powder Coating for superior corrosion resistance
- Easy Installation
- Proudly Made in America
- Limited lifetime product, up to a 3-year \$10,000 connected equipment warranty

SPECIFICATIONS

- **Service voltage:** 120/240 volt, single phase
- **Maximum surge current:** 100,000 Amps
- **Maximum energy dissipation:** 1,020 Joules
- **Installation point:** Electrical panel/disconnect
- **Diagnostics:** Green light indicates surge suppression present
- **AC protection modes:** L-L, L-N, L-G, N-G
- **Conduit connection:** 3/4"
- **Weight:** 0.55 lbs.
- **Dimensions:** 5.0" x 2.78" x 2.16"

SPLIT PHASE SPDs

ICM518

240 VAC Split Phase Surge Protective Device



FEATURES/BENEFITS

- 240 VAC split surge protective device
- Easy 3-wire installation
- 3/4" conduit connection
- Green LED indicator tells whether the device is operational
- Low cost, high performance
- Rugged and reliable
- UL Listed Type 1 or Type 2 SPD
- NEMA Type 4X watertight enclosure for indoor/outdoor use
- Limited Lifetime Protection Warranty
- 100 kA maximum surge current protection

SPECIFICATIONS

- **Service voltage:** Split 240 VAC
- **Maximum surge current:** 100 kA
- **Short Circuit Current Rating (SCCR):** 200 kA
- **Nominal discharge current (In):** 20 kA
- **Protection mode:** L1-L2, L1-N, L2-N
- **Maximum Continuous Operation Voltage (MCOV):**
 - L-L: 300 VAC
 - L-N: 150 VAC
- **VPR:** • L-L: 1200 VAC • L-N: 700 VAC
- **SPD type:** Type 1 (can also be used in Type 2 apps)
- **Surge protection technology:** TFMOV
- **Input power frequency:** 50/60 Hz
- **Dimensions:** 4.30" x 4.10" x 2.30"

REPLACES

- **ASCO:** 420120S
- **Eaton:** SP1-240S, SP2-240S
- **ERICO (Critec):** TDX50C240
- **Generac:** G0073000
- **Intermatic:** AG2401C3, IG1200RC3, IG1240RC3, IG3240RC3
- **Leviton:** 55240-ASA
- **MARS:** 83905
- **Siemens:** TPS3A
- **Ditek:** DTK 120/240HD2
- **Citel:** MLPXUVG

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All features and specifications are subject to change without notice.



ICM495-30A/60A

Disconnect with
Internal Surge Protection



UL LISTED
E347279

FEATURES/BENEFITS

- UL Listed Electrical Disconnect including both enclosure & surge protector
- 120VAC single-phase, 240VAC split-phase
- Features an internal surge protective device
- Maximum Surge Current Rating of 100kA
- Highest UL rating for nominal discharge current (in 20kA), for increased longevity & durability of the SPD
- Constructed with 2 high-quality thermally protected MOV's (TFMOV)
- Completely factory wired for quick and easy installation
- NEMA Type 3R rated powder coated metal enclosure for indoor/outdoor use
- Fully accessible mounting holes, no disassembling required
- Braided strap thoroughly grounding both the enclosure and cover
- LED indicator light showing when surge protection is operational
- 30A Fused & 60A non-fused models available
- Made in the USA
- Limited lifetime product, up to a 3-year \$10,000 connected equipment warranty

SPECIFICATIONS

INPUT:

- **Voltage:** Split phase 240 VAC
- **Frequency:** 50/60Hz

CONTACT RATINGS:

- **Voltage:** 240 VAC
- **FLA:** 30A/60A (depending on model)
- **LRA:** 360A

PARAMETERS:

- **Short Circuit Current Rating (SCCR):** 10kA
- **Nominal discharge current (In):** 20kA
- **Protection mode:** L1-L2, L1-N, L2-N
- **Maximum Continuous Operation Voltage (MCOV):**
 - L-L: 300 VAC
 - L-N: 150 VAC
- **VPR:**
 - L-L: 1200 VAC
 - L-N: 700 VAC
- **SPD type:** Type 2
- **Surge protection technology:** TFMOV

REPLACES

- All standard disconnect boxes rated for equal voltage and current configurations
- **30A – MARS:** 83916, **RectorSeal:** RSH-50 96417
- **60A – MARS:** 83915, **RectorSeal:** RSH-50 96419

3-PHASE SPDs

ICM530

3-Phase Surge Protective Device
for 3-Phase Delta 240 VAC or
Wye 120/208 VAC



UL LISTED
E347279

FEATURES/BENEFITS

- 240 VAC or Wye 120/208 VAC
- Delta or Wye Configuration
- NEMA Type 4X watertight plastic enclosure for outdoor and indoor installation
- Green LED indicates surge protection present
- Easily connects to electrical panel or disconnect for indoor and outdoor apps
- UL Listed Type 1 or Type 2 SPD
- Limited Lifetime Protection Warranty
- 150 kA maximum surge current protection

SPECIFICATIONS

- **Service voltage (3-phase):** 240 VAC Delta or 120/208 VAC Wye
- **Maximum surge current:** 150 kA
- **Short Circuit Current Rating (SCCR):** 200 kA
- **Nominal discharge current (In):** 20 kA
- **Protection mode:**
 - 3 for Delta configuration
 - 6 for Wye configuration (neutral tied to ground)
- **Maximum Continuous Operation Voltage (MCOV):**
 - L-L: 300 VAC
 - L-N: (for Wye configuration only): 150 VAC
- **VPR:**
 - Delta L-L: 1200 VAC
 - Wye L-L: 1200 VAC
 - Wye L-N: 700 VAC
- **SPD type:** Type 1 (can also be used in Type 2 apps)
- **Surge protection technology:** TFMOV
- **Input power frequency:** 50/60 Hz
- **Dimensions:** 4.30" x 4.10" x 2.30"

REPLACES

- **ABB:** OVRHLDxx-120
- **ASCO:** 420120Y, 420240D
- **Eaton:** SP1-208Y, SP1-240D, SP2-208Y, SP2-240D
- **ERICO (Critec):** TXD50C120/208, TXD50C120/240D
- **Intermatic:** AG2083C3 L5F13Y1DG1
- **Leviton:** 55208-ASA
- **Siemens:** TPS3D, TPS3C
- **Square D:** SDSA2040, SDSA2040D

ICM531

3-Phase Surge Protective Device for 3-Phase Delta 480 VAC or Wye 277/480 VAC



UL LISTED E347279

FEATURES/BENEFITS

- 480 VAC or Wye 277/480 VAC
- Delta or Wye Configuration
- NEMA Type 4X watertight plastic enclosure for outdoor and indoor installation
- Green LED indicates surge protection present
- Easily connects to electrical panel or disconnect for indoor and outdoor apps
- UL Listed Type 1 or Type 2 SPD
- Limited Lifetime Protection Warranty
- 150 kA maximum surge current protection

SPECIFICATIONS

- **Service voltage (3-phase):** 480 VAC Delta or 277/480 VAC Wye
- **Maximum surge current:** 150 kA
- **Short Circuit Current Rating (SCCR):** 200 kA
- **Nominal discharge current (In):** 20 kA
- **Protection mode:**
 - 3 for Delta configuration
 - 6 for Wye configuration (neutral tied to ground)
- **Maximum Continuous Operation Voltage (MCOV):**
 - L-L: 700 VAC
 - L-N: (for Wye configuration only): 350 VAC
- **VPR:**
 - Delta L-L: 2500 VAC
 - Wye L-L: 2500 VAC
 - Wye L-N: 1200 VAC
- **SPD type:** Type 1 (can also be used in Type 2 apps)
- **Surge protection technology:** TFMOV
- **Input power frequency:** 50/60 Hz
- **Dimensions:** 4.30" x 4.10" x 2.30"

REPLACES

- **ABB:** OVRHLDxx-277
- **ASCO:** 420277Y, 420480D
- **Eaton:** SP1-480Y, SP1-480D, SP2-480Y, SP2-480D
- **ERICO (Critec):** TDX50C277/480
- **Intermatic:** AG4803C3, L5F13Y2DG1
- **Leviton:** 55480-ASA
- **Siemens:** TPS3E, TPS3F
- **Square D:** SDSA4040, SDSA4040D

ICM532

3-Phase Surge Protective Device for 3-Phase Delta 600 VAC or Wye 347/600 VAC



UL LISTED E347279

FEATURES/BENEFITS

- 600 VAC or WYE 347/600 VAC
- Delta or Wye Configuration
- NEMA Type 4X watertight plastic enclosure for outdoor and indoor installation
- Green LED indicates surge protection present
- Easily connects to electrical panel or disconnect for indoor and outdoor apps
- UL Listed Type 1 or Type 2 SPD
- Limited Lifetime Protection Warranty
- 150 kA maximum surge current protection

SPECIFICATIONS

- **Service voltage (3-phase):** 600 VAC Delta or 347/600 VAC Wye
- **Maximum surge current:** 150 kA
- **Short Circuit Current Rating (SCCR):** 200 kA
- **Nominal discharge current (In):** 20 kA
- **Protection mode:**
 - 3 for Delta configuration
 - 6 for Wye configuration (neutral tied to ground)
- **Maximum Continuous Operation Voltage (MCOV):**
 - L-L: 920 VAC
 - L-N: (for Wye configuration only): 460 VAC
- **VPR:**
 - Delta L-L: 2500 VAC
 - Wye L-L: 2500 VAC
 - Wye L-N: 1500 VAC
- **SPD type:** Type 1 (can also be used in Type 2 apps)
- **Surge protection technology:** TFMOV
- **Input power frequency:** 50/60 Hz
- **Dimensions:** 4.30" x 4.10" x 2.30"

REPLACES

- **ASCO:** 420347Y, 420600D
- **Eaton:** SP1-600Y, SP1-600D, AP2-600Y
- **ERICO (Critec):** TXD50C347/600
- **Intermatic:** AG6503, L5F13Y3DG1
- **Siemens:** TPS3L, TPS3G
- **Square D:** SDSA3650, SDSA3650D

ICM533

3-Phase Surge Protective Device for 3-Phase Delta High Leg 120/240 VAC



UL LISTED E347279

FEATURES/BENEFITS

- High Leg 120/240 VAC
- Delta High-Leg Configuration
- NEMA Type 4X watertight plastic enclosure for outdoor and indoor installation
- Green LED indicates surge protection present
- Easily connects to electrical panel or disconnect for indoor and outdoor applications
- UL Listed Type 1 or Type 2 SPD
- Limited Lifetime Protection Warranty
- 150 kA maximum surge current protection

SPECIFICATIONS

- **Service voltage (3-phase):** 120/240 VAC Delta High-Leg
- **Maximum surge current:** 150 kA
- **Short Circuit Current Rating (SCCR):** 200 kA
- **Nominal discharge current (In):** 20 kA
- **Protection mode:** 3 for Delta configuration
- **Maximum Continuous Operation Voltage (MCOV):**
 - L-L: 300 VAC
 - H-L: 450 VAC
 - L-N: 150 VAC
 - H-N: 300 VAC
- **VPR:**
 - L-L: 1200 VAC
 - H-L: 1500 VAC
 - L-N: 700 VAC
 - H-N: 900 VAC
- **SPD type:** Type 1 (can also be used in Type 2 apps)
- **Surge protection technology:** TFMOV
- **Input power frequency:** 50/60 Hz
- **Dimensions:** 4.30" x 4.10" x 2.30"

REPLACES

- **ASCO:** 420240H
- **Eaton:** SPD050240H1
- **Intermatic:** AG2403C3, L5F13D1DG1
- **Siemens:** TPS3B
- **Square D:** SDSA2040D



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MOTOR STARTERS

SOFT START CONTROLS

ICM870-9A/ICM870-16A

Soft Start Controls



UL US LISTED E340301

FEATURES/BENEFITS

- Reduces in-rush current/draw necessary at startup by up to 70%
- Prolong the life of the A/C by reducing excessive torque, wear and tear
- 4-minute on start delay
- Reduce loud noises, light flickering, and breaker trips
- Built-in self-learning algorithm
- Over-current protection
- Over/under voltage monitoring
- Built-in start capacitor
- LED fault indicators
- Ultrasonic sealed tamper-proof enclosure
- Installation hardware is included
- 9A Model – Order: **ICM870-9A**
- 16A Model – Order: **ICM870-16A**

SPECIFICATIONS

- **Inputs:** L1 & L2
- **Nominal voltage:** 120 VAC, 240 VAC
- **Over voltage limits:**
120 VAC nominal = 140 VAC
240 VAC nominal = 264 VAC
- **Under voltage limits:**
120 VAC nominal = 95 VAC
240 VAC nominal = 195 VAC
- **Outputs:** Compressor
- **Current:** Maximum nominal = 9A, 16A
- **Over current limits:**
ICM870-9A = 11.25A
ICM870-16A = 20A
- **Operating temp.:** -40°F to 131°F (-40°C to 55°C)
- **Storage temp.:** -40°F to 149°F (-40°C to 65°C)
- **Humidity:** 0-95% non-condensing
- **Enclosure:** IP65/Type 4X
- **Dimensions:** 7.60" x 3.20" x 2.10"

ICM870-32A

Soft Start Control



UL US LISTED E340301

FEATURES/BENEFITS

- Reduces in-rush current/draw necessary at startup by up to 70%
- Prolong the life of the A/C by reducing excessive torque, wear and tear
- 4-minute on start delay
- Reduce loud noises, light flickering, and breaker trips
- Built-in self-learning algorithm
- Over-current protection
- Over/under voltage monitoring
- Built-in start capacitor
- LED fault indicators
- Ultrasonic sealed tamper-proof enclosure
- Installation hardware is included

SPECIFICATIONS

- Semi-Conductor Soft-Start Motor Controller, Form 2, Bypassed Controller**
- SCCR: 5kA
 - Uimp = 4kv
 - Ue = 240 VAC
 - Pollution degree 3
 - Ui = 240 VAC
- Input (L1, L2) – 100-240 VAC 50/60Hz**
- **Over voltage limits:**
115 VAC nominal = 140 VAC,
240 VAC nominal = 264 VAC
 - **Under voltage limits:** 115 VAC nominal = 95 VAC, 240 VAC nominal = 195 VAC
- Outputs: Compressor**
- **Solid state/relay**
 - **Current:** Max. nominal = 32A
 - **Over current limits:** ICM870-32A = 40A
- Environmental:**
- **Ambient temperature:**
40°C @ 32 FLA, 8 hour duty
 - **Storage temperature:** -40°F to 149°F (-40°C to 65°C)
 - **Humidity:** 0-95% non-condensing
 - **Enclosure:** IP65
 - **Dimensions:** 7.94" x 4.20" x 2.10"
 - **Screw hole center points:** 7.36" x 2.97"

UMSR – UNIVERSAL MOTOR STARTING RELAY

ICM's Universal Motor Starting Relay incorporates patented differential voltage sensing and a non-positional mounting configuration to offer a single replacement for all standard potential relays. Ideal for A/C, commercial refrigeration, heat pump or any single-phase motor application up to 10 HP.

UMSR-50

Universal Motor Starting Relay



FEATURES/BENEFITS

- Replacement for all standard potential relays
- Patented differential voltage sensing
- No user-adjustments required
- Non-positional mounting configuration
- 50A switching capabilities
- Universal mounting bracket for easy installation
- .250" quick connect termination
- Safety timer

SPECIFICATIONS

- **Voltage rating:** 110-270 VAC, single phase
- **Max. voltage contact rating:** 502 VAC (absolute)
- **Motor power rating:** Up to 10 HP
- **Operating position:** Non-positional
- **Safety time out:** Approximately 1-second per 100 microfarads
- **Consumption:** 5 VA maximum
- **Contact rating:** 50A (break only)
- **Dimensions:** 2.00" x 2.00" x 1.75"

REPLACES

- All standard potential relays
- **Supco:** APR5, SUPR

ECM CONTROLS

ELECTRONICALLY COMMUTATED MOTOR

ICM's controllers provide a line of form, fit and functional OEM replacements for efficiently controlling a motor's speed. Manual or automated control of an ECM is available (model dependent), while monitoring and displaying the RPM/CFM of the motor.

ICM708

ECM Control



FEATURES/BENEFITS

A low current pulse width modulated signal for controlling the speed of a GE 2.3 ECM based on a user settable potentiometer.

RPM Feedback

On-board LED diagnostics for a visual indication of the motor's status.

SPECIFICATIONS

- **Power supply:** 18-30 VAC
- **RPM input:** 5 VDC
- **PWM & ON/OFF outputs:** 14 VDC (PWM 80 Hz)
- **Dimensions:** 4.25" x 2.35" x 1.50"

REPLACES

- **EVO™/ECM-VCU-36-mp**

ICM709

ECM Control



FEATURES/BENEFITS

A low current pulse width modulated signal for controlling the speed of a GE 2.3 ECM based on user settable potentiometers (SET0 - SET4) and a thermostat's requested call.

RPM Feedback

On-board LED diagnostics for a visual indication of the motor's status.

SPECIFICATIONS

- **Power supply:** 18-30 VAC
- **RPM input:** 15 VDC
- **Thermostat inputs: (SPD1 - SPD4):** 18-30 VAC
- **PWM & ON/OFF outputs:** 14 VDC (PWM 80 Hz)
- **Dimensions:** 3.25" x 3.00" x 0.75"

REPLACES

- **EVO™/ECM-4Spd**



ICM711

ECM Control



FEATURES/BENEFITS

The **ICM711** is used to control the speed of an Electronically Commutated Motor (**ECM**) by automated control systems via a 0-10 VAC input (**SIGNAL & COMMON**), or manually via potentiometer (**SET SPEED**). The **ICM711** will also provide motor speed feedback via visual LED indication (**MOTOR RPM**) as well as a 0-10 VAC output (**RPM & COMMON**) to supply an automated control system.

SPECIFICATIONS

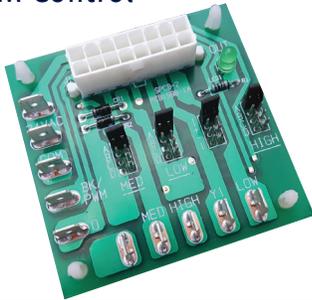
- **Power supply:** 18-30 VAC, 60 Hz
- **Signal & common:** 0-10 VDC → 0-100% PWM request
- **ECM supplied feedback:** 5 VDC (motor at rest or not connected)
- **PWM supplied to ECM:** 18 VDC (10mA max)
- **ON/OFF supplied to ECM:** 18 VDC (10mA max)
- **RPM & common:** 0-10 VDC (5mA max) → 0 to 2000 RPM (10 RPM increments)
- **Dimensions:** 4.25" x 2.35" x 1.50"

REPLACES

- **EVO™/ECM-ACU+-S1**

ICM712

ECM Control



FEATURES/BENEFITS

The **ICM712** is a motor speed controlling interface for use with a low voltage thermostat or automated control unit to control the ECM's output.

SPECIFICATIONS

- **24 VAC thermostat inputs:** O, MED, HIGH, Y1 & LOW
- **PWM input:** BK/PWM
- **Electrical rating:** 24 VAC (18-30 VAC)
- **Dimensions:** 3.00" x 3.00" x 1.60"

REPLACES

- **IEC:** E025-71521506

ICM713

ECM Control



FEATURES/BENEFITS

- Single or dual temperature inputs
- Heat pump bypass circuitry
- Low current pulse width modulated output
- Lead free design

SPECIFICATIONS

- **Voltage:** 18-30 VAC
- **Frequency:** 50/60 Hz
- **Output:** 13.5 VDC, 10mA max., 80 Hz, 0-100%
- **Operating temperature:** -40°F to 158°F
- **Storage temperature:** -40°F to 185°F
- **Temperature probes:** 10 KOhm (NTC, J-Curve)
- **Dimensions:** 5.00" x 3.25" x 1.50"

REPLACES

- **Hoffman:** 880-ECM(10)SSHP

ICM715

ECM Control



FEATURES/BENEFITS

- Provides a single, user selected motor speed when replacing an OEM constant torque electronically commutated motor
- Simple installation
- Works on constant torque blower motor such as X13 or SelecTech constant torque electronically commutated motor up to 1 HP
- User selectable 3 minute delay on break option

SPECIFICATIONS

- **Motor voltage:** 120 VAC or 208-240 VAC
- **Input voltage:** 24 VAC
- **Frequency:** 50-60 Hz
- **Horse power:** 1 HP max.
- **Dimensions:** 4.00" x 2.25" x 1.25"

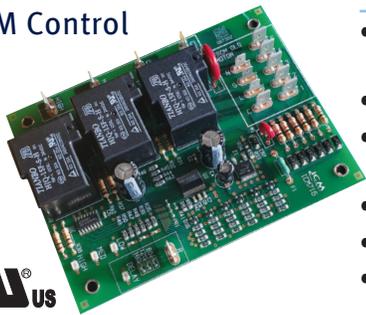
REPLACES

- **QwikSwapX1**



ICM716

ECM Control



FEATURES/BENEFITS

- Provides a means to replace an X13 or SeleTech constant torque ECM with a single phase PSC motor
- Eliminates costly ECM repairs
- 3 High power relay outputs for automated speed selection
- 3 LED's indicate selected speed
- LED indicator illuminates when OFF delay is active
- User selectable 60, 120, or 180 second OFF delay

SPECIFICATIONS

- **Motor voltage:** 120 VAC or 208-240 VAC
- **Input voltage:** 24 VAC
- **Frequency:** 50-60 Hz
- **Horse power:** 1 HP max.
- **Dimensions:** 5.00" x 3.75" x 1.25"

REPLACES

- QwikSwapX3

FAN BLOWER CONTROLS

AIR HANDLING CONTROLLERS

ICM6500-1

Air Handling Controller



FEATURES/BENEFITS

- Multi-functional control
- Microprocessor controlled
- Precision timing
- Low cost solution

SPECIFICATIONS

- **Voltage:** 24 VAC, 120/240 VAC
- **Frequency:** 50/60 Hz
- **Valve output:** 24 VAC, 50/60 Hz, 5A
- **Blower fan:** 120/240 VAC, 50/60 Hz, 13A/6.5A
- **Water pump:** 120/240 VAC, 50/60 Hz, 1.5A/1.5A
- **Boiler:** 24 VAC, 50/60 Hz, 5A
- **ECM Output:** 24 VAC, 5A
- **Dimensions:** 2.00" x 7.00" x 1.25"

REPLACES

- Vtronics: R200A

ICM6501

Air Handling Replacement Controls



FEATURES/BENEFITS

- Air handler control board operates with hot water heating systems
- Features both preheat and post-purge fan blower delays

SPECIFICATIONS

- **Voltage:** 120 VAC or 208-240 VAC
- **Control voltage:** 24 VAC
- **Frequency:** 50-60 Hz
- **Hi/Lo Blower:** 120/240 VAC, 9.8 FLA
- **Water Pump:** 120/240 VAC, 1.5 FLA
- **Dimensions:** 4.00" x 2.25" x 1.25"

REPLACES

- ClimaTek/First Company: CB201

ICM6502

Air Handling Replacement Controls



FEATURES/BENEFITS

- Power interruption protection for the compressor
- Random Start delay
- 6-minute anti-short cycle timer
- 2 stages of heating
- Low outdoor ambient compressor lockout
- Steady state cooling
- Low indoor coil temperature cooling shut down
- Low outdoor coil defrost lockout (defrost mode)
- Low indoor room ambient (RS) auxiliary heat mode
- Front Desk shut down switch input
- Speed up test mode reduces timing for field testing of the board

SPECIFICATIONS

Input:

- **Voltage:** 208-240 VAC
- **Control voltage:** 24 VAC
- **Frequency:** 50-60 Hz
- **Dimensions:** 7.50" x 5.50" x 1.50"

Output:

- **Compressor:** 10 FLA @240 Vac
- **Low Speed Evap. Fan:** 2FLA @40 Vac
- **High Speed Evap. Fan:** 2FLA @240 Vac
- **Auxiliary Heat Stg #1:** 21A Resistive @ 240 VAC
- **Auxiliary Heat Stg #2:** 21A Resistive @240VAC
- **Reversing Valve:** 24 Vac 5VA
- **Condenser Fan:** 24 Vac 1A Pilot Duty

REPLACES

- ClimaTek/First Company: CB1025, CB1026



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All features and specifications are subject to change without notice.

POST PURGE, OFF DELAY TIMER

Controls the circulating fan in heat pump, air conditioning and forced air systems. OFF delay timing function continues to run the fan at the end of the heating/cooling cycle, thereby purging ducts of residual air and increasing system efficiency. Power must be applied before and during the time delay period. When the initiate contact closes, the load energizes and remains energized as long as the initiate contact is closed. The time delay begins when the initiate contact opens. At the end of the time delay period, the load is turned off. If the initiate contact recloses during the time delay period, the load remains energized and the time delay is reset to zero. Removal of the input power during the delay turns off the load and resets the time delay to zero. A one-second interrogation delay is provided to avoid nuisance trips due to thermostat bounce or tampering.

ICM253

Post Purge,
OFF Delay Timer



FEATURES/BENEFITS

- UL 873 recognition for compressor applications
- Post-purge fan delay timer
- OFF delay purges ducts of residual air at the end of the heating/cooling cycle
- Interrogation delay eliminates nuisance trips due to thermostat bounce/ tampering

SPECIFICATIONS

- **Voltage:** 18-30 VAC
 - 1 amp maximum
 - 40 mA minimum
 - 10 amp inrush
- **Adjustable time delay:**
 - **OFF:** 12-390 seconds
- **Dimensions:** 2.00" x 3.00" x 1.25"

REPLACES

- **Field Controls:** 46144700
- **Gemline:** 1C216
- **Mars:** 32393

FORM, FIT AND FUNCTIONAL OEM REPLACEMENT PARTS

ICM256

OFF Delay on Break Control



FEATURES/BENEFITS

- Fan post purge timer to control circulating fan in forced air systems
- Dual function 7 second ON delay / 65 second OFF delay
- Speed up terminals for test mode
- Fuse protected control voltage
- High power relay output

SPECIFICATIONS

- Input:**
- **Control voltage:** 18-30 VAC
 - **Frequency:** 50/60 Hz
- Output:**
- **Type:** Relay • **Form:** SPST N.O.
 - **Rating:** 25 amps @ 240 VAC
- Time Delays:**
- **ON delay:** 7 seconds
 - **OFF delay:** 65 seconds
- Speed Up Options:**
- **Speed up to C** = Reduced delay (3 seconds ON, 5 seconds OFF)
 - **Speed up to R** = No delay
- Dimensions:** 2.85" x 2.00" x 2.00"

REPLACES

- **Goodman:** PCBFM-103

GAS IGNITION CONTROLS

ICM283

Universal OEM HSI Replacement Control



FEATURES/BENEFITS

- Hot Surface Ignition (HSI) Module
- Single/dual rod sensing capabilities
- For gas fired furnaces, boilers and other heating appliances
- Switch selectable lockout times, ignition trials
- Works with both natural & LP gas systems
- Diagnostic LED to aid in troubleshooting

SPECIFICATIONS

- **Voltage:** 120 & 24 VAC, 60 Hz
- **HSI:** 120 VAC, 5A maximum
- **Valve:** 24V, 2A maximum
- **Total:** 24V Load = 0.4 + valve load
- **Pre-purge time:** 32 seconds
- **Trial time:** 4 or 7 seconds (switch selectable)
- **Ignition trials to lockout:** 1 or 3 (switch selectable)
- **Flame sense:** Single rod or dual rod
- **Gas type:** Natural or LP
- **Dimensions:** 5.50" x 4.00" x 2.00"

REPLACES

- **Honeywell:** S8910U-1000
- **Robertshaw:** HS780
- **White Rodgers:** 50E47, 50F47

ICM2918

Universal Intermittent Pilot Ignition Control



FEATURES/BENEFITS

- Universal intermittent pilot gas ignition control
- Provides ignition sequence, flame monitoring and safety shutoff for single/dual rod intermittent pilot control applications
- For gas fired furnaces, boilers and other heating applications
- Switch selectable pre-purge and ignition trials with permanent lock
- Works with or without vent damper connected
- Works with both Natural gas and LP gas systems

Universal

SPECIFICATIONS

- **Control voltage:** 18-30 VAC
- **Frequency:** 50/60 Hz
- **Trial for ignition:** 15 or 90 seconds (switch)
- **Operating temp.:** -40°F to 165°F (-40°C to 74°C)
- **Relative humidity:** 5% - 95% (non-condensing) at +55°C
- **Pre-purge time:** 0 seconds or 15 seconds (switch settable)
- **Green status LED:** System status and error codes
- **Yellow flame LED:** Flame presence and flame strength
- **Dimensions:** 5.50" x 4.00" x 2.00"

REPLACES

ICM290A, Honeywell S8610U & over 280 other models



See Full Replaces List Here



ICM2901

Intermittent Pilot Gas Ignition Control



FEATURES/BENEFITS

- For use with intermittent pilot boilers, furnaces and other heating appliances
- Microprocessor-based precision
- Monitors timing, trial for ignition, roll out switch, flame sensing and lockout
- Remote flame sensing
- 100% lockout safety feature
- Compatible with LP or natural gas

SPECIFICATIONS

- **Voltage:** 24 VAC (18-30 VAC), 50/60 Hz
- **Anticipator setting:** 0.3A plus valve load @ 24 VAC
- **Prepurge:** None
- **Trial for ignition:** 85 seconds
- **Flame failure response time:** 0.5 seconds
- **Retry:** None
- **Relative humidity:** 0% - 95% non-condensing
- **Operating temperature:**
 - Min. ambient temperature rating is -40°F (-40°C)
 - Max. ambient rating when used with 2.0A main valve is 160°F (71°C)
- **Relative humidity:** 0% to 95% non-condensing
- **Dimensions:** 5" x 5.75" x 2.00"

REPLACES

- **ICM:** 294
- **Johnson Controls:** G770RJA-1
- **York:** 025-27762-700 and comparable ignition controls.

ICM2902

Intermittent Pilot Gas Ignition Control



FEATURES/BENEFITS

- For use with intermittent pilot boilers, furnaces and other heating appliances
- Microprocessor-based precision
- Monitors timing, trial for ignition, flame sensing and lockout
- Remote flame sensing
- 100% lockout safety feature
- Compatible with LP or natural gas
- Status LED for fault codes to aid in troubleshooting

SPECIFICATIONS

- **Voltage:** 24 VAC (18-30 VAC), 50/60 Hz
- **Anticipator setting:** 0.3A plus valve load @ 24 VAC
- **Prepurge:** 15 seconds
- **Trial for ignition:** 85 seconds
- **Lockout:** 60 minutes
- **Flame failure response time:** 2 seconds
- **Status LED:** See product label for error codes
- **Operating temperature:**
 - Min. ambient temperature rating is -40°F (-40°C)
 - Max. ambient rating when used with 2.0A main valve is 160°F (71°C)
- **Relative humidity:** 0% to 95% non-condensing
- **Dimensions:** 5" x 5.75" x 2.00"

REPLACES

- **ICM:** 293
- **Johnson Controls:** G776 (63K2401, 41K8701, 69J3601) ignition controls
- **Lennox:** 30W33 ignition control,
- **Robertshaw:** 735L (18G91) or 745 (95Ho4) ignitor controls

ICM2910

Ignition Control



FEATURES/BENEFITS

- Series of 11 Fenwal OEM replacement controls
- Direct Spark Ignition (DSI) control modules
- Microprocessor-based
- Controls spark ignitor and gas valve
- Monitors timing, trial for ignition, flame sensing and lockout
- Compatible with LP or natural gas
- Redundant gas valve design conforms to ANSI Z21.20
- Conforms to UL STDs 60730-1 and 60730-2-5
- Certified to CSA STD E60730-1 & CSA STD C22.2#60730-2-5

SPECIFICATIONS

- **Voltage:** 102-138 VAC
- **Flame current:** 1uA minimum
- **Current draw:** 50mA maximum
- **Gas valve:** 1.5A@120 VAC
- **Flame failure response time:** 0.8 sec. maximum
- **Operating temp.:** -40°F to 175°F (-40°C to 80°C)
- **Mounting:** Surface mount using (2) #8 screws
- **Dimensions:** 5.23" x 2.53" x 1.86"

ICM P/N	Replaces Fenwal P/N	# Ignition Trials	Pre-Purge Time	Inter-Purge Time	Trial for Ignition Time
ICM2910-200-005	35-725200-005	1	None	None	10s
ICM2910-201-007	35-725201-007	1	None	None	15s
ICM2910-201-501	35-725201-501	1	5s	None	4s
ICM2910-201-505	35-725201-505	1	5s	None	10s
ICM2910-205-015	35-725205-015	3	None	15s	10s
ICM2910-205-017	35-725205-017	3	None	15s	15s
ICM2910-205-021	35-725205-021	3	None	25s	4s
ICM2910-205-115	35-725205-115	3	15s	15s	10s
ICM2910-205-521	35-725205-521	3	5s	25s	4s
ICM2910-206-515	35-725206-515	3	5s	15s	10s
ICM2910-405-013	35-725405-013	3	None	15s	7s

OIL BURNER PRIMARIES

ICM1500 SERIES: ICM1501, ICM1502 & ICM1503

Oil Primary Control



FEATURES/BENEFITS

- Controls oil burner, oil valve (if desired) and the ignition transformer in response to a call for heat
- Solid state flame sensing circuit
- LED on terminal strip indicates system lockout
- Enclosed safety switch with external reset button
- C554A Cadmium Sulfide flame detector required
- Form, fit and functional replacement for popular competitive models

SPECIFICATIONS

- **Ignition type:** Intermittent
- **Timing, safety switch:** 15, 30 or 45 seconds
- **Mounting bracket:** For mounting on a standard 4" X 4" junction box or direct mounting on burner housing
- **Temperature range:** -30°F to +130°F
- **Approvals:** Underwriters Laboratories Inc.
- **Dimensions:** 4.10" x 2.36" x 4.40"

REPLACES

ICM P/N	Safety Timing	Replaces
ICM1501	15 Seconds	Honeywell: R8184G4066, R8184G1161, R8184G1294
ICM1502	30 Seconds	Honeywell: R8184G4074, R8184G1179, R8184G1302, R8184G4033
ICM1503	45 Seconds	Carlin: 48245 Honeywell: R8184G4009, R8184G1138, R8184G1427, R8184G4025 Tempstar/Heil: 1147017 White Rodgers: 668-401



PHONE: 1-800-365-5525 FAX: 315-233-5276 WEB: WWW.ICMCONTROLS.COM

All features and specifications are subject to change without notice.



UNIVERSAL CLOCK TIMER

ICM550

Multi-Functional Timer



FEATURES/BENEFITS

- 24-hour multi-functional timer
- Timed or manual termination
- Adjustable 15 min to 23 hours 45 min defrost cycle
- High power relay outputs
- 100% monitoring of inputs and outputs
- Simple to use, drag & drop replacement for popular models
- User-friendly time clock
- For replacement board only order:
ICM550

ICM550-ENC

Enclosed Multi-functional Weatherproof Timer



FEATURES/BENEFITS

- Enclosed 24-hour multi-functional timer
- Timed or manual termination
- Adj. 15 min to 23 hours 45 min defrost cycle
- High power relay outputs
- 100% monitoring of inputs and outputs
- Simple to use, drag & drop replacement for popular models
- User-friendly time clock
- Enclosure not sold separately
- Weatherproof Enclosure Ratings
- Rugged, NEMA/TYPE 4X rated plastic, weatherproof enclosure
- Easy to mount and lockable
- Helps to protect controls from harsh environmental conditions such as temperature, shock, humidity and vibration
- For replacement board and enclosure order:
ICM550-ENC

Universal

SPECIFICATIONS

ELECTRICAL RATING

- **Voltage:** 120-240VAC
- **Frequency:** 60 Hz

OUTPUT

- **Type:** Relay
- **Form:** SPDT, SPST
- **Rating:**
 - [2] & [4]: 30A R, 1HP @ 120 VAC, 2HP @ 240 VAC
 - [1] & [3]: 40A R, 1HP @ 120 VAC, 2HP @ 240 VAC
 - [1] & [7]: 30A R, 1HP @ 120 VAC, 2HP @ 240 VAC

TIMING

- **Minimum cycle time:** 15 min
- **Maximum cycle time:** 23 hr 45 min
- **Terminate cycle:** Cycle can be terminated by shorting "X to N"

STATUS LED

- **Cycle mode:** (Red LED)
- **Normal mode:** (Green LED)

DIMENSIONS

- **ICM550:** 4.50" x 3.12" x 6.00"
- **ICM550-ENC:** 8.75" x 6.50" x 2.75"

REPLACES

- **Intermatic/Grasslin:** 010-0011B, DT040, DT140, DTAV40, DTAV40M, DT-B, DTMV, DTSX
- **Paragon:** 8041, 8045, 8047, 8141, 8143, 8145, 8245, 8247
- **Precision:** 6041, 6045, 6047, 6141, 6145

HEAD PRESSURE CONTROLS

ICM325A

Universal Single-Phase Head Pressure Control



FEATURES/BENEFITS

- Operates as temperature or pressure sensitive motor fan speed control
- Helps prevent evaporator freeze-ups, low pressure cut-outs and liquid-slugged compressors in low ambient conditions
- Integral heat pump bypass circuitry allows electronic bypass of speed control
- Eliminates overshoots common to on/off and pressure switch controls
- Near field communication (phone tap) using the ICM OMNI App
- Features: hard start, low temperature bypass, isolated 24 VAC supply
- Controls up to 3 refrigeration circuits
- RoHS compliant / lead free design
- Typical application: A/C and heat pumps
- Universal 120-600VAC line voltage and 24-240VAC control voltage

**NEW UNIVERSAL CONTROLS
VIA NFC TECHNOLOGY**



Universal

SPECIFICATIONS

- **Line voltage:** 120 - 600 VAC
- **Control voltage:** 24-240 VAC (Jumper enabled)
- **Frequency:** 50-60 Hz
- **Operating temperature:** -40°F to +176°F (-40°C to +75°C)
- **Temperature sensors:** 10K ohms at 77°F (25°C)
- **Heat pump reversing valve input:** 24-240 VAC (Cool active default / jumper enabled heat active option)

REPLACES

- **ACT:** FM2000
- **Hoffman:** 800, 800A, 800AA, 814-50, 816-10
- **Ranco:** E31Series
- **Johnson Controls:** P66AAB/ P66AAD
- **ICM:** ICM325H, ICM325HNV, ICM326HM2, ICM326HN, ICM327HN, ICM333, ICM334





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