

RELAYS

UNIVERSAL REPLACEMENT POTENTIAL RELAYS

MARS II Series relays are manufactured for the HVAC industry. These relays meet all requirements for original equipment relays. They feature a universal break-off bracket to fit your specific application.

- 50/60 cycle
- UL and CSA approved
- Contact rating 35 amp, 480 VAC
- Non-positional
- Instructions and wiring diagram included in each relay.

ITEM NO.	DESCRIPTION	CONTINUOUS COIL VOLTAGE	MIN.	MAX.	DROP-OUT MAX
63	MARS II 163	170	139	153	55
64	MARS II 164	395	260	275	120
65	MARS II 165	332	168	182	90
66	MARS II 165	395	215	225	120
67	MARS II 167	420	295	315	125
68	MARS II 168	502	325	345	135
69	MARS II 169	332	180	193	105
70	MARS II 170	253	285	305	77
71A	MARS II 171	420	212	232	121

TIME DELAY RELAYS

These time delay relays are used for a variety of applications in heating and air conditioning. They operate by means of a solid state PTC (positive temperature coefficient) device which heats up as current passes through it from the control circuit. This heat causes a positive, snap-acting disc to make or break the necessary contacts.

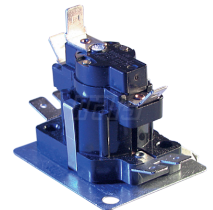
- Shock & vibration resistant internal snap action automatic reset switch mechanism assures positive make/break action
- Non-positional
- Wide selection for any application
- Voltage and ambient compensated
- UL and CSA listed
- Used for electric heat, air conditioning, heat pumps, gas & oil furnaces, unit heaters and commercial refrigeration
- Replaces Klixon Type 6000COM-21

ITEM NO.	DESCRIPTION	SWITCH TYPE	CONTROL VOLTAGE	DELAY (ON)	DELAY (OFF)
33247	Time Delay Relay	SPDT 1 & 3 N.O.	24	1-24s	15-75s

SPST AND SPDT FAN RELAYS

The MARS Series 903 relays are among the most popular relays used in air conditioning today. They will replace the WR/Essex/RBM Type 84 (90-290 thru 90-295) quick-connect and screw terminal versions.

ITEM NO.	DESCRIPTION	COIL VOLTAGE
90290	SPST 24V Relay	24
90291	SPST 110/120V Relay	110/120
90292	SPST 208/240V Relay	208/240
90293	SPDT 24V Relay	24
90294	SPDT 110/220V Relay	110/120
90295	SPDT 208/240V Relay	208/240



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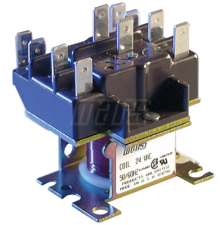
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RELAYS

2-POLE AIR CONDITIONING RELAYS

The MARS Series 903 switching relays are intended for many applications in air conditioning, refrigeration, and heating. Other uses include general purpose switching in appliances, fan controls, and vending machines. Our relays are available in 24, 110/120, and 208/240 coil voltages with various combinations of power and pilot duty contacts.



ITEM NO.	DESCRIPTION	COIL VOLTAGE	TERMINALS 1-2-3	TERMINALS 4-5-6
90340	Power/Power Relay	24	Power	Power
90341	Power/Power Relay	110/120	Power	Power
90342	Power/Power Relay	208/240	Power	Power
90343	Power/Pilot Relay	24	Power	Pilot
90344	Power/Pilot Relay	110/120	Power	Pilot

HEAVY DUTY FAN RELAYS

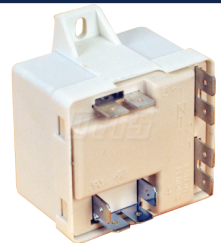
MARS Heavy Duty Fan Relays are used on heating and air conditioning equipment to provide switching of heavier loads with a compact size relay. These fan relays replace WR/Essex/RBM type 184



ITEM NO.	DESCRIPTION	COIL VOLTAGE
90370	SPDT Relay	24
90380	SPNO-SPNC Relay	24
90382	SPNO-SPNC Relay	110/120

MARS RELAY/TRANSFORMER FAN CONTROL CENTERS

MARS series 240 fan centers provide convenient low voltage control of one and two speed fan motors and auxiliary circuits in heating, cooling, or heating/cooling applications. Each MARS fan center is a reliable, compact unit consisting of a 24 volt control transformer and a plug-in switching relay mounted on a 4" square electrical junction box cover. All line voltage connections are made inside the box with color coded pre-stripped leads. Low voltage connections are made at a convenient terminal board mounted to the transformer.



- UL 1585 40VA transformer
- color coded leads
- Low voltage terminal board
- Mounts directly to 4" electrical box

ITEM NO.	DESCRIPTION	TRANSFORMER				CONTACT RATINGS				
		PRIMARY VOLTAGE	CONNECTIONS	SECONDARY VOLTAGE	CONNECTIONS	120V AC (amps)		240V AC (amps)		
24210	Super-Fit Fan Center	120/ 208/ 240	Color coded leads, pre-stripped	24V	Terminal board w/ 5 screw terminals	DPDT	13.8	82.8	6.9	41.4
24213	SPDT Fan Center	120	Color coded leads, pre-stripped	24V	Terminal board w/ 5 screw terminals	SPDT	13.8	82.8	6.9	41.4



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CONTACTORS

DEFINITE PURPOSE CONTACTORS

GE's model 453 25-40 amp 3 pole contactors feature several significant innovations, including "finger safe" design and a visual indicator showing whether the contactor is energized. The model 453 25-40 amp 3 pole models also have been designed to accommodate IEC style auxiliaries.



ITEM NO.	DESCRIPTION	F.L.A.	RESISTIVE RATING PER POLE	POLES	VOLTAGE
13113	Model 453 Contactor	30	40	3	24
13114	Model 453 Contactor	30	40	3	120
13115	Model 453 Contactor	30	40	3	240
13116	Model 453 Contactor	40	50	3	24
13117	Model 453 Contactor	40	50	3	120

General Electric has 50 and 60 amp 3 pole contactors. MARS numbers 13619 thru 13627 feature smaller size and a rugged die cast universal base for replacement of competitive contactors. These contactors feature famous General Electric quality and dependability.

ITEM NO.	DESCRIPTION	FULL LOAD AMPS	RESISTIVE AMPS	COIL VOLTAGE	POLES
13619	50A Contactor	50	62	24	3
13621	50A Contactor	50	62	208-240	3
13625	60A Contactor	60	75	24	3
13627	60A Contactor	60	75	208-240	3

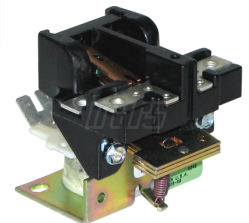
General Electric 75 amp contactors' small size and straight thru wiring make these easy to install.

ITEM NO.	DESCRIPTION	FULL LOAD AMPS	RESISTIVE AMPS	COIL VOLTAGE	POLES
13240	75A Contactor	75	90	24	3
13242	75A Contactor	75	90	208-240	3

30 AMP 2 POLE CONTACTORS

The MARS Series 180 contactors are designed primarily to replace contactors used in air conditioning and electric heating to control blower motors. In addition they are used to switch pumps and computer power supplies. Replace General Electric Contactors and other manufacturers including WR, Essex/RBM and Honeywell.

- Replace all 3ARR8, 9, 27, and 28 GE contactors
- Non-positional
- UL and CSA listings available



ITEM NO.	DESCRIPTION	FULL LOAD AMPS	RESISTIVE AMPS	LOCKED ROTOR AMPS	COIL VOLTAGE	POLES
18001A	Magnetic Line Contactor	30	30	120	24	2



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SURGE PROTECTORS

Surge Protectors

The SCM140 uses a diagnostic LED connected at each phase wire to indicate power, ground and surge protection present. Their unique "lattice array" design provides an unmatched level of protection against damaging surges.

ITEM NO.	DESCRIPTION	SERVICE VOLTAGE	MAX. SURGE CURRENT	RESPONSE TIME	OPERATING FREQUENCY
SCM150	SCM150 Surge Arrestor	120-240 VAC	100,000 Amps	< 5 ns	0-400 Hz



KICKSTARTS

HARD STARTS

ITEM NO.	DESCRIPTION	RECOMMENDED RANGE	CAPACITOR SIZE	OPERATING VOLTAGE
SPP6	Hard Start Kit	1 - 10hp	130 - 156 μ F	90 - 277 VAC
SPP8	Hard Start Kit	1 - 5hp	189 - 227 μ F	170 - 277 VAC



KICKSTARTS

The design sets Kickstart® apart from the competition! Ongoing research and development continues to earn product approval from leading compressor and equipment manufacturers. A first for any two-wire starting device in the HVACR industry. Hard start devices extend the life of compressors considerably by bringing them up to full speed more quickly and efficiently. They also assist compressors in starting under very adverse ambient conditions such as low voltage or high head pressures.



ITEM NO.	DESCRIPTION	SIZE	QTY.
TO5	Kickstart for single phase 208/230/265V	1-3 tons	20

KICKSTARTS

ITEM NO.	DESCRIPTION	SIZE	QTY.
KS1	Kickstart for single phase 208/230/265V	3.5-5 tons	20

UNIVERSAL EASY-START 4

One Universal Easy-Start 4 can be used in place of any one of the four commonly used hard start kits on the market today. Can be used in over 90% of refrigeration and air conditioning applications. The modern, high-microfarad capacitor and potential relay are enclosed within hermetically-sealed aluminum housing (protecting it from harsh environments). No relay wire.

ITEM NO.	DESCRIPTION	CAPACITOR SIZE	OPERATING VOLTAGE	QTY.
TURBOSTART	Universal 2-Wire Hard Start	233-280 mfd	370/440V	10



5-2-1 COMPRESSOR SAVER

Reduce the amount of time required to stabilize the compressor during start up and you will reduce the length of time the compressor is exposed to damaging heat. 5-2-1® Compressor Saver® accomplishes this by providing your compressor with a precise "boost" during the critical start up period. As a result, the compressor stabilizes faster, length of exposure to damaging electrical heat is reduced and ultimately the compressor life is extended.

ITEM NO.	DESCRIPTION	QTY.
CSRU1	5-2-1 Compressor Saver (for 1-2-3 tons)	25
CSRU3	5-2-1 Compressor Saver (for 4-5 tons)	25



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