

MARS 780 Definite Purpose Contactors

Professional Grade Product for the Most Demanding Refrigeration and HVAC Applications



MARS 780 Definite Purpose Contactors

Professional Grade

Features

- Most robust, longest lasting design available
- Engineered for the most demanding applications
- Heavy duty silver alloy contacts for maximum electrical endurance
- Enclosed coil to prevent penetration of dirt and insects
- Meets ARI 780/790 requirements
- cULus approval
- Large arch window box lugs
- "Push to test" button (not on 75 and 90 amp contactors)
- Furnas replacement
- Removable cover for service
- Features replaceable coils on three pole product
- Accepts Furnas auxiliary switches

One and Two Pole DP Contactors

MARS NO.		FLA	TYPE	LOCKED ROTOR AMPS			RES. AMPS	COIL VOLTS	CROSS REFERENCE
SCREW TYPE	BOX LUG			240	277	600			
61320	61720	30	1 Pole with Shunt	180	180	40	24	45E*10AJA	
61321	61721						120	45E*10AFA	
61322	61722						208-240	45E*10AGA	
61323	61723						277	45E*10ALA	
61324	61724						480	45E*10AHA	
61345	61745		2 Pole	180	150	120	40	24	45E*20AJ
61346	61746							120	45E*20AF
61347	61747							208-240	45E*20AG
61348	61748							277	45E*20AL
61349	61749							480	45E*20AH
	61425		2 Pole, Large Body	180	150	120	40	24	42B*15AJ
	61426							120	42B*15AF
	61427							208-240	42B*15AG
	61428							277	42B*15AL
	61730		40	1 Pole with Shunt	240	240	50	24	45G*10AJA
	61731	120						45G*10AFA	
	61732	208-240						45G*10AGA	
	61733	277						45G*10ALA	
	61734	480						45G*10AHA	
	61755	2 Pole		240	200	160	50	24	45G*20AJ
	61756							120	45G*20AF
	61757							208-240	45G*20AG
	61758							277	45G*20AL
	61759							480	45G*20AH
	61440	2 Pole, Large Body		240	200	160	50	24	42C*15AJ
	61441							120	42C*15AF
	61442							208-240	42C*15AG
	61443							277	42C*15AL

Three Pole DP Contactors

MARS NO.		FLA	TYPE	LOCKED ROTOR AMPS			RES. AMPS	COIL VOLTS	CROSS REFERENCE
SCREW TYPE	BOX LUG			240	277	600			
61430	61750	30	3 Pole	180	150	120	40	24	42B*35AJ
61431	61751							120	42B*35AF
61432	61752							208-240	42B*35AG
61433	61753							277	42B*35AL
61434	61754							480	42B*35AH
	61445	40		240	200	160	50	24	42C*35AJ
	61446							120	42C*35AF
	61447							208-240	42C*35AG
	61448							277	42C*35AL
	61449							480	42C*35AH
	61460	50		300	250	200	63	24	42D*35AJ
	61461							120	42D*35AF
	61462							208-240	42D*35AG
	61463							277	42D*35AL
	61464							480	42D*35AH
	61470	60	360	300	240	75	24	42E*35AJ	
	61471						120	42E*35AF	
	61472						208-240	42E*35AG	
	61473						277	42E*35AL	
	61474						480	42E*35AH	
	62480	75*	450	375	300	94	24	42F*35AJ	
	62481						120	42F*35AF	
	62482						208-240	42F*35AG	
	62483						277	42F*35AL	
	62484						480	42F*35AH	
	62490	90*	540	450	360	120	24	42G*35AJ	
	62491						120	42G*35AF	
	62492						208-240	42G*35AG	
	62493						277	42G*35AL	
	62494						480	42G*35AH	

*75 and 90 Amp 780 Series contactors included in this document are UL approved for use with A2L refrigerants.

Auxillary & Microswitches

MARS NO.	DESCRIPTION	CONTACTOR SIZE
61610	1 NO	3 Pole 30-60 Amp
61611	1 NC	
61612	1 NO + 1 NC	
61613	2 NO	
61614	2 NC	
61615	SPDT	
61616	DPDT	3 Pole 75-90 Amp*
61598	1 NO	
61599	1 NC	
61600	1 NO + 1 NC	
61601	2 NO	
61602	2 NC	
61603	1 SPDT (right side)	
61604	1 SPDT (left side)	
61605	2 SPDT	

Coils

MARS NO.	CONTACTOR SIZE	COIL VOLTAGE
61697	3 Pole 30-40 Amp	24V
61698		120V
61699		208-240V
61700		277V
61701		480V
61684	3 Pole 50-60 Amp	24V
61685		120V
61687		208-240V
61690		277V
61691	3 Pole 75-90 Amp	480V
61692		24V
61693		120V
61694		208-240V
61695		277V
61696		480V

*75-90 Amp Auxillary and Microswitches listed are to be used with MARS A2L approved contactors.

Key Characteristics

Operating Position		Vertical or Horizontal
Ambient Temperature	Operation	-40°F - +158°F
	Storage	-40°F - +158°F
Approvals		UL (USR/CNR) and CCC Compliant with UL 60947-4-1, IEC 60947-4-1, EN 60947-4-1
Coil Insulation		Class F (155°F)
Terminal Types		Screw Type: Main Terminal - Slotted and hex head w/ quick connect; Coil Terminals - dual quick connect Box Lug: Main Terminal - Box Lug w/ quick connect; Coil Terminals - dual quick connect
Torque Requirements		Torque For Screws 25 lb-in / Lugs 25 lb-in for 30-40FLA Types Torque For Screws 45 lb-in / Lugs 50 lb-in for 50-60FLA Types Torque For Screws 50 lb-in / Lugs 60 lb-in for 75FLA Types Torque For Screws 8 lb-in for Auxiliary Contact Blocks

MARS Definite Purpose Contactors

JARD



Aftermarket Grade
Time tested and trusted

MARS 910



OEM Grade
Built to standards required
by major OEMs

MARS 780



Professional Grade
The best contactor available
on the market