

## MARS Common Electrical Installation Accessories

## Easiest Installation, Longest Lifespan



# Disconnects

- NEMA 3R, rainproof
- 2 Pole
- Single Phase
- Patented Finger Safe Pullout
- UL and CUL listed
- Anti-UV Powder Coat
- Secure Locking Mechanism
- 4 Sided Multisize Knockouts (1/2", 3/4", 1")

MARS NO.	AMP RATING	VOLTAGE RATING	TYPE	AMPERE INTERRUPTING CAPACITY	SPECIAL FEATURES	DIMENSIONS (W X L X H)	PACK SIZE
Side Open Disconnects							
80315	60 A	120/240 V	Non-Fused	10K	Multi-Conductor Rated	5 1/8" x 8 2/3" x 2 1/4"	6
80316	30 A	120/240 V	Fused	10k	Multi-Conductor Rated	5 1/8" x 8 2/3" x 2 1/4"	6
80317	60 A	120/240 V	Fused	10k	Multi-Conductor Rated	5 1/8" x 8 2/3" x 2 1/4"	6
80301	60 A	120/240 V	Non-Fused	10k	Economy Low Profile Design, Multi-Conductor Rated	5" x 6" x 2 1/2"	6
Top Open Disconnects							
83315	60 A	120 V / 240 V	Non-Fused	10k	cULus Listed	5 1/8" x 7 1/2" x 2 3/4"	10
83316	30 A	120 V / 240 V	Fused	10k	cULus Listed	5 1/8" x 8 3/4" x 2 3/4"	10
83317	60 A	120 V / 240 V	Fused	10k	cULus Listed	5 1/8" x 8 3/4" x 2 3/4"	10
83396	30 A		Fused	10k	Compact Size	5" x 7 1/4" x 2 1/8"	6
Top Open GFCI Receptacle Disconnects							
MARS A/C Disconnect/ GFCI Receptacle Combination disconnects provide a convenient low cost means to satisfy NEC Article 210.63 requirements for HVAC/R Equipment Outlets and Article 406.8(B)(1) for Receptacle – Wet Locations							
83308	60 A	240 V	Non-Fused	10k	15A, 125V GFCI Receptacle, Compact Size	5" x 7" x 4"	6
83309	60 A	240 V	Non-Fused	10k	20A, 125V GFCI Receptacle, Compact Size	5" x 7" x 4"	6
Surge Disconnects							
83915*	60 A	120/240 V	Non-Fused	10k	Integrated Surge Protection	5 1/8" x 8 2/3" x 2 1/4"	6
83916*	30 A	120/240 V	Fused	10k	Integrated Surge Protection	5 1/8" x 8 2/3" x 2 1/4"	6
83917*	60 A	120/240 V	Fused	10k	Integrated Surge Protection	5 1/8" x 8 2/3" x 2 1/4"	6
83925*	60 A	120/240 V	Non-Fused	10k	Integrated Surge Protection (Removable Surge Module)	5" x 8 3/8" x 3"	6

\*For more information on Disconnects with Surge Protection, see page 5 of this document. 83925 not approved for use in Canada.

Side Open



Top Open



Top Open w/Receptacle

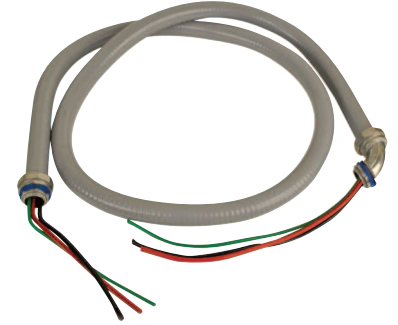


## Air Conditioning Whips

Non-metallic conduit with metallic and non-metal fittings. Assembled with UL approved components.

LENGTH	CONDUIT DIAMETER	WIRE GAUGE	METALLIC FITTINGS		NON-METALLIC FITTINGS	
			MARS NO.	PACK SIZE	MARS NO.	PACK SIZE
4'	1/2"	#10	84132	1	84131	1
4'	3/4"	#8	84134	1	84133	1
6'	1/2"	#10	84136	1	84135	1
6'	3/4"	#8	84138	1	84137	1
8'	3/4"	#8	—	—	84141	1

MARS has complete range Whips, Conduit, and Disconnects. For items not listed here, contact your MARS representative or visit [www.marsdelivers.com](http://www.marsdelivers.com).



## Flexible Non-Metallic Conduit

MARS' flexible non-metallic conduit features phthalate free PVC construction. It is oil and water resistant, sunlight resistant, crush resistant and approved for direct burial.

- Temperature rated: -18°C to 75°C
- UL listed, CSA certified

MARS NO.	DIAMETER	LENGTH
84118	1/2"	100'
84119	3/4"	100'
84121	1/2"	25'
84122	3/4"	25'



## Conduit Fittings

CONDUIT DIAMETER	TYPE	NON-METALLIC		METALLIC		SCREW ON	
		MARS NO.	PACK/CASE SIZE	MARS NO.	PACK/CASE SIZE	MARS NO.	PACK/CASE SIZE
1/2"	Straight	85016	25/250	85001	20/250	84992	25/100
3/4"	Straight	85017	10/100	85002	10/100	84993	25/100
1/2"	90°	85020	10/100	85005	10/100	84994	10/100
3/4"	90°	85021	10/100	85006	10/100	84995	10/100



# Surge Protection

## MARS Furnace/Air Handler Protection

The MARS 83904 SPD is designed specifically for 120V furnace, air handler, and 120V ductless applications. It utilizes thermally protected MOV technology for safe and reliable protection of equipment.

**Protects:** Furnace, air handler, and ductless components such as ECM motors, control boards, transformers, and inverter boards.

**Warranty:** 3 Year Warranty, \$7,500 Connected Equipment Warranty

- Easy 2 Wire Installation
- Green LED Status Indicator
- Thermally Protected MOVs
- 120V Single Phase 50/60Hz
- Short Circuit Current Rating: 10,000 Amps
- MCOV: L-G 150V
- Voltage Protection Rating: L-G 700V
- UL 1449 4th Edition
- Type 1 or 2 Surge Protection Rating



MARS NO.	DESCRIPTION
83904	MARS Furnace/Air Handler Protection

## MARS HVAC Surge Protection

The 83905 protects HVAC equipment from power spikes, surges and transients using Thermally Protected MOV technology.

**Protects:** Indoor or outdoor units to include compressors, control boards, sensors and ECM motors.

**Warranty:** 3 Year Warranty, \$7,500 Connected Equipment Warranty

- Easy Installation to Disconnect
- Weatherproof 4X Enclosure
- Green & Red LED Status Indicators
- Thermally Protected MOVs
- 120/240V Single (Split) Phase 50/60Hz
- Short Circuit Current Rating: 22,000 Amps
- MCOV: L-G 150V / L-L 300V
- Voltage Protection Rating: L-G 700V / L-L 1200V
- UL 1449 4th Edition
- Type 1 or 2 Surge Protection Rating



MARS NO.	DESCRIPTION
83905	MARS Standard System Protection

## MARS HVAC iNtelligent Surge Protection

The iSPD (Intelligent Surge Protection Device) offers comprehensive protection for your HVAC equipment.

The MARS 83907 Surge Protection Device provides maximum protection from surges, transients and low voltage conditions. Additionally, the 83907 can monitor refrigerant temperatures to identify coil freeze-up and/or low refrigerant issues, and shut down the compressor if a fault is detected. In the event of diminished surge protection or failure, the compressor will not be allowed to start until the module is replaced.

**Warranty:** 3 Year Warranty, \$7,500 Connected Equipment Warranty

- Easy installation to disconnect box
- Weatherproof 4X enclosure
- Fits 1/2" knockouts
- Green & Red LED status indicators
- Thermally protected MOV's
- 240V single phase 50/60Hz
- Nominal Discharge Current Rating (In):10,000A
- Max continuous over voltage: L-G 150V / L-L 300V
- Voltage protection rating: L-G 700V / L-L 1200V
- UL 1449 4th Edition



MARS NO.	DESCRIPTION
83907	MARS Standard System Protection

## MARS Disconnects with Surge Protection

MARS offers two disconnects with integrated surge protection. Both offer robust, weather resistant enclosures and both utilize thermally protected MOV technology for safe and reliable protection of equipment.

The 83915-17 come with an 83910 wired module. The 83925 features a patent pending surge pull-out for the easiest possible installation.

**Protects:** Outdoor units (split and ductless) to include compressors, control boards, relays, sensors and ECM motors.

**Warranty:** 3 Year Warranty, \$7,500 Connected Equipment Warranty

- Easy installation to disconnect box
- Weatherproof 4X enclosure
- Green & Red LED status indicators
- Thermally protected MOV's
- 240V single phase 50/60Hz
- Nominal Discharge Current Rating (In): 10,000A
- Max continuous over voltage: L-G 150V / L-L 300V
- Voltage protection rating: L-G 700V / L-L 1200V

MARS NO.	DESCRIPTION	SURGE MODULE
83915	MARS 60 Amp Non-Fused w/ wired module	83910
83916	MARS 30 Amp Fused w/ wired module	83910
83917	MARS 60 Amp Fused w/ wired module	83910
83925*	MARS 60 Amp Non-Fused w/ pull-out module	83911

\* 83925 not approved for use in Canada.



## DITEK HVAC Surge Protection

DITEK's DTK-CM+ Series of Surge Protective Devices (SPD's) provide durable, cost-effective protection. It utilizes thermally protected MOV technology for safe and reliable protection of equipment.

**Protects:** Indoor or outdoor units to include compressors, control boards, sensors and ECM motors.

**Warranty:** 10 Year Warranty, 3 Year \$7,500 Connected Equipment Warranty

- Easy Installation to Disconnect
- Weatherproof 4X Enclosure
- Green LED Status Indicator
- Thermally Protected MOVs
- 120/240V Single (Split) Phase 50/60Hz
- MCOV: L-G 150V / L-L 300V
- Voltage Protection Rating: L-G 700V / L-L 1200V
- UL 1449 5th Edition
- Type 1 or 2 Surge Protection Rating



MARS NO.	DESCRIPTION
DTK-120/240CM+	DITEK HVAC Surge Protection

## DITEK Voltage Monitoring with Surge Protection

DITEK's DTK-KG2 is part of the Kool Guard family of voltage monitoring products. It protects HVAC equipment from harmful undervoltage and overvoltage events that can damage sensitive electronics and mechanical components within the system. The DTK-KG2 also incorporates the same surge protection found in the DTK-120/240CM+ to shield the equipment from damaging transient voltage surges and spikes.

**Protects:** Indoor or outdoor units to include compressors, control boards, sensors and ECM motors.

**Warranty:** 10 Year Warranty

- Voltage Configuration: 120/240VAC Split  $\Phi$  / 120/208VAC Split  $\Phi$
- Undervoltage Protection Level: 104 VAC (L-G)
- Overvoltage Protection Level: 130 VAC (L-G)
- Housing: UL Type 4X Enclosure
- UL and CSA Approved



MARS NO.	DESCRIPTION
DTK-KG2	DITEK Over/Under Voltage Protection



# Surge Protection

## Mersen STLC Whole Home Surge Protection

The average home has \$15,000 worth of equipment that can be damaged by electrical surges. Mersen's STLC surge protective device adds a critical layer of surge protection to the entire home. This simple whole house solution is installed directly in the electrical panel and has flexibility to fit in a variety of different load center manufacturers and models. The STLC Series satisfies the new 2020 NEC Article 230.67 requirement for surge protection for residential dwellings.

**Warranty:** 3-year Warranty, \$25k connected equipment warranty

- Quickly installs directly into load center bus bar, utilizing any (two) open adjacent breaker slots
- Type 1 Surge Protection Rating
- Nominal Discharge Current Rating (In): 10,000A
- Max continuous over voltage: L-G 150V / L-L 300V
- Voltage protection rating: L-G 600V / L-L 1000V
- UL 1449 5th Edition
- Fits into most residential load centers with 1" spacings. Visit [www.marsdelivers.com](http://www.marsdelivers.com) for a comprehensive list.



MARS NO.	DESCRIPTION
83937	Mersen Whole Home Surge Protection

## Mersen STXR Three Phase Surge Protection

The STXR Series UL listed Type 1 SPD meets the UL1449 5th Edition standards and is an excellent replacement for outdated surge arrestors. This series incorporates TPMOV technology, ensuring it is one of the safest options available. The STXR series boasts a compact design and offers flexibility for line or load installation, making it ideal for both branch panel and individual equipment protection

**Warranty:** 5 Year Warranty

- Designed with industry leading TPMOV Technology
- Flexibility for line or load installation, making it ideal for both branch panel and individual equipment protection
- Fits 3/4" knockouts with 3' leads for easy installation
- 5-year manufacturer's warranty
- UL1449 5th Edition
- Less than 1 nanosecond response time.



MARS PART NO.		SYSTEM VOLTAGE AND CONFIGURATION	IN	MAXIMUM CONTINUOUS OPERATING VOLTAGE (MCOV, Uc)				VOLTAGE PROTECTION RATING (VPR) (UL 1449, 6k, 3kA)			
STANDARD	WITH N-G PROTECTION**			L-N	L-G	L-L	N-G**	L-N	L-G	L-L	N-G*
83930	83931	208/120V 3-PHASE WYE	20kA	150	300*	300	150	700	1200*	1200	600
83932	83933	480/277V 3-PHASE WYE	20kA	320	470*	640	150	1200	1800*	2000	700
83935	—	240V 3-PHASE DELTA	20kA	—	320	640	—	—	1200	2000	—
83934	—	480V 3-PHASE DELTA & HRG WYE	10kA	—	550	1100	—	—	1800	3000	—
				L-N/HL-N	L-G/HL-G	L-L/HL-L	N-G**	L-N/HL-N	L-G/HL-G	L-L/HL-L	N-G*
83936	—	240/120V HI-LEG DELTA	20kA	150/270	300/420*	300/420	150	700/1.2k	1.2k/1.2k*	2k/2k	600

\* MCOV and VPR only applicable for models with options N-G protection - see below.

\*\* N-G protection is suggested downstream of N-G bond when the unit is installed > 10' (3m) from service entrance or transformer. Use standard device for installation of SPD at or near service entrance or transformer < 10' (3m) (N-G Bonded does not require N-G protection).

## RK5 Time Delay Fuses

### Applications:

Recommended for AC power distribution system mains, feeders, and branch circuits. Protection of motors and motor branch circuits. Protection of transformers and other inductive loads. All general-purpose applications including lighting, heating and other non-inductive loads.

### Benefits:

Superior overload and cycling capabilities.  
Current limiting provides component short-circuit protection

### Dual-Element Time-Delay

**Voltage Rating:** RK5 - 250Vac, RK5 - 600Vac

**Amp Rating:** 1/10 - 600A Interrupting Rating: 200,000 RMS Symmetrical Amps

**Current Limiting:** RK5 Fuse

**Agency Approvals:** UL Listed, Class RK5, CSA Certified, DC listed to UL standard 248 600V only

### Voltage Rating:

#### RK5 250V

Volts : 250VAC  
: 250VDC (.1-2.8A; 35-400A)  
: 160VDC (3-30A; 450-600A)

#### RK5 600V

Volts : 600VAC  
: 600VDC (.1-12A; 70-600A)  
: 160VDC (15-60A)

MARS offers the broadest, most complete range of fuses available in the HVAC industry. For items not listed here, contact your MARS representative or visit [www.marsdelivers.com](http://www.marsdelivers.com).



## JARD RK5 Time Delay Fuses

MARS NO.	AMP RATING	VOLTS	PACK SIZE	MERSEN NO.	BUSSMAN-FUSETRON	BUSSMAN-EDISON	LITTELFUSE	MARS NO.	AMP RATING	VOLTS	PACK SIZE	MERSEN NO.	BUSSMAN-FUSETRON	BUSSMAN-EDISON	LITTELFUSE
81034	15	250	10	TR15R	FNR-R-15	ECNR15	FLNR015	81043	60	250	10	TR60R	FNR-R-60	ECNR60	FLNR060
81036	20	250	10	TR20R	FNR-R-20	ECNR20	FLNR020	81134	15	600	10	TRS15R	FRS-R-15	ECSR15	FLSR015
81037	25	250	10	TR25R	FNR-R-25	ECNR25	FLNR025	81136	20	600	10	TRS20R	FRS-R-20	ECSR20	FLSR020
81038	30	250	10	TR30R	FNR-R-30	ECNR30	FLNR030	81137	25	600	10	TRS25R	FRS-R-25	ECSR25	FLSR025
81039	35	250	10	TR35R	FNR-R-35	ECNR35	FLNR035	81138	30	600	10	TRS30R	FRS-R-30	ECSR30	FLSR030
81040	40	250	10	TR40R	FNR-R-40	ECNR40	FLNR040	81140	40	600	10	TRS40R	FRS-R-40	ECSR40	FLSR040
81041	45	250	10	TR45R	FNR-R-45	ECNR45	FLNR045	81141	50	600	10	TRS50R	FRS-R-50	ECSR50	FLSR050

## Mersen RK5 Time Delay Fuses

**Includes SmartSpot Indicator**

MERSEN's TRR (250V) and TRS (600V) RK5 fuses feature a SmartSpot indicator on the label of the fuse which senses an open fuse and turns from silver to eye-catching red

MARS NO.	AMP RATING	VOLTS	PACK SIZE	MERSEN NO.	BUSSMAN-FUSETRON	BUSSMAN-EDISON	LITTELFUSE	MARS NO.	AMP RATING	VOLTS	PACK SIZE	MERSEN NO.	BUSSMAN-FUSETRON	BUSSMAN-EDISON	LITTELFUSE
82034	15	250	10/100	TR15R	FNR-R-15	ECNR15	FLNR015	82043	60	250	10/100	TR60R	FNR-R-60	ECNR60	FLNR060
82036	20	250	10/100	TR20R	FNR-R-20	ECNR20	FLNR020	82134	15	600	10/200	TRS15R	FRS-R-15	ECSR15	FLSR015
82037	25	250	10/100	TR25R	FNR-R-25	ECNR25	FLNR025	82136	20	600	10/200	TRS20R	FRS-R-20	ECSR20	FLSR020
82038	30	250	10/100	TR30R	FNR-R-30	ECNR30	FLNR030	82137	25	600	10/200	TRS25R	FRS-R-25	ECSR25	FLSR025
82039	35	250	10/100	TR35R	FNR-R-35	ECNR35	FLNR035	82138	30	600	10/200	TRS30R	FRS-R-30	ECSR30	FLSR030
82040	40	250	10/100	TR40R	FNR-R-40	ECNR40	FLNR040	82140	40	600	10/100	TRS40R	FRS-R-40	ECSR40	FLSR040
81041	45	250	10/100	TR45R	FNR-R-45	ECNR45	FLNR045	82141	50	600	10/100	TRS50R	FRS-R-50	ECSR50	FLSR050

## Midget Fuses, Types ATM and ATQ

Type ATM provide supplemental protection of wide variety of circuits up to 600VAC with 100kA I.R.

Type ATQ provide supplemental protection in lighting, solenoid, motor, and transformer circuits. Time delay (12 seconds @ 200% rating) for circuits with high inrush current.

MARS NO.	TYPE	AMP RATING	PACK SIZE	MERSEN NO.	BUSSMAN-FUSETRON	LITTELFUSE
82909	ATM	1	10/100	ATM1	KTK-1	KLK001
82919	ATM	15	10/100	ATM15	DCM-15	KLK015
82947	ATQ	10	10/100	ATQ10	FNQ-10	FLQ010
82952	ATQ	15	10/100	ATQ15	FNQ-15	FLQ015
82948	ATQ	20	10/100	ATQ20	FNQ-20	FLQ020

## Automotive Blade Type Fuse Acting 32V DC, Type ATC

MARS NO.	AMP RATING	PACK SIZE	MERSEN NO.	BUSSMAN-FUSETRON	LITTELFUSE
82230	3	5	AF3	ATC-3	ATO3
82231	5	5	AF5	ATC-5	ATO5

Founded in 1946, MARS is the preeminent supplier of quality motors, components, service/installation parts, and equipment for the HVAC/R industry.

Originally launched as a motor repair company, MARS has continually evolved its business throughout the years to meet the needs of our customers.

Today, MARS is one of the most trusted brands in the HVAC/R market. We provide a single source for quality products, responsive service and a proven ability to deliver confidence to customers. We continue to anticipate the needs of the marketplace and actively create value for our customers. This commitment makes MARS the most comprehensive supplier of commercial and residential HVAC/R motors, components, and equipment in the industry.

