

Ideally suited for higher amperage applications. Available with front and back mounting, screw terminals, stud terminals and heavy duty box wire connectors for solid wire or a pressure plate connector for stranded wire. Power selector device available, consult factory.

The E-Series is UL Listed and CSA Certified for Branch Circuit protection which does not require a fuse backup. It is also UL Recognized and CSA Certified as a Supplementary Protector and as a Manual Motor Controller.

1-6 poles, .1 - 100 amps, up to 600 VAC or 125 VDC, with choice of time delays and actuator colors.

Agency Certifications

UL Recognized

UL Standard 1077

71

Component Recognition Program as Protectors, Supplementary (Guide

QVNU2, File E75596)

UL Standard 508

77

Component Recognition Program as

UL Standard 1500

(U_L)

Protectors, Supplementary for Marine Electrical & Fuel Systems

UL Listed

UL Standard 489



Manual Motor Controls (Guide NLRV2, File E135367)

(Guide PEQZ2, File E75596) Ignition

Protection

Circuit Breakers, Molded Case (Guide DIVQ, File E129899)

CSA Accepted



Component Supplementary Protector (Class 3215 30, File

047848 0 000)

CSA Standard C22.2 No. 235

CSA Certified

TUV Certified



1432 01, File 093910), CSA Standard C22.2 No. 5.1 - M

Circuit Breaker Molded Case (Class

EN60934 under License No.

R72031056

VDE Certified



EN60934, VDE 0642 under File No.

10537

Electrical

Table A: Lists UL Listed (489) & CSA Certified (C22.2 No. 5) configurations & performance capabilities as a Molded Case Circuit Breaker.

E-SERIES TABLE A : UL489 LISTED BRANCH CIRCUIT BREAKERS										
		VOLTAGE	CURRENT	INTERRUPTING CAPACITY						
CIRCUIT	MAN			RATING	(AMPS)					
CONFIGURATION	MAX. RATING	FREQUENCY	PHASE	FULL LOAD AMPS	WITHOUT BACKUP FUSE					
	80	DC		0.10 - 125	50,000					
	125	DC		0.10 - 125	10,000					
SERIES	120	50 / 60	1	0.10 - 125	10,000					
	120 / 240	50 / 60	1	0.10 - 125	10,000					
	240	50 / 60	1 & 3	0.10 - 100	5,000					

Electrical

Table B: Lists UL Recognized & CSA Accepted configurations & performance capabilities as a Component Supplementary Protector.

E-SERIES TABLE B: COMPONENT SUPPLEMENTARY PROTECTORS																					
		VOLTAGE			CURRENT RATING		CIRCUIT TY (AMPS)	APPLICATION CODES													
	MAX. RATING	FREQUENCY	PHASE	FULL LOAD AMPS	GENERAL PURPOSE AMPS	WITH BACKUP FUSE 1	CSA WITHOUT BACKUP FUSE	UL	CSA	CONSTRUCTION NOTES											
	125	DC		0.02 - 120			5,000	TC1,2, OL1,U1	TC1,2, OL1,U1												
	125	DC			101 - 120		5,000	TC1,2, OL0,U1	TC1,2, OL0,U1												
	160	DC		0.02 - 100			5,000	TC1,2, OL1,U1	TC1,2, OL1,U1												
	150 / 300	DC		0.02 - 100			5,000	TC1,2, OL1,U1	TC1,2, OL1,U1												
	120 / 240	50 / 60	1	0.02 - 100			5,000	TC1,2, OL1,U1	TC1,2, OL1,U1												
SERIES & SHUNT	240	50 / 60	1	0.02 - 100			5,000	TC1,2, OL1,U1	TC1,2, OL1,U1												
5115111	250	50 / 60	1	0.02 - 100		10,000		TC1,2, OL1,C1	TC1,2, OL1,C1												
	077	277 50 / 60		0.02 - 100			5,000	TC1,2, OL1,U1	TC1,2, OL1,U1												
	211		50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	2// 50/60	00/60	50 / 60 1	0.02 - 100		10,000		TC1,2, OL1,C1	TC1,2, OL1,C1
	480	50 / 60	1 & 3	0.02 - 100		10,000		TC1,2, OL1,C1	TC1,2, OL1,C1	2 Poles Breaking Single Phase, 3 or 4											
	600	50 / 60	1 & 3	0.02 - 100		10,000		TC1,2, OL1,C1	TC1,2, OL1,C1	Poles Breaking Three Phase											
	125	DC		0.02 - 120																	
	160	DC		0.02 - 100																	
SWITCH ONLY	240	50 / 60	1	0.02 - 100																	
SWITCH ONLY	277	50 / 60	1	0.02 - 100																	
l	480	50 / 60	1 & 3	0.02 - 100																	

Notes for Table B:

1 & 3 | 0.02 - 100

Table C: Lists UL Recognized, CSA Accepted and VDE Certified configurations and performance capabilities as a Component Supplementary Protector.

	E-SERIES TABLE C: COMPONENT SUPPLEMENTARY PROTECTORS																																					
VOLT		VOLTAGE		VOLTAGE		VOLTAGE		VOLTAGE		VOLTAGE		VOLTAGE		VOLTAGE		VOLTAGE		VOLTAGE		VOLTAGE		VOLTAGE		VOLTAGE		VOLTACE		VOLTAGE		VOLTAGE		CURRENT	SHORT C	IRCUIT CAP	ACITY (AMPS)	APPLICATI	ON CODES	
CIRCUIT		VOLIAGE		RATING	UL/	CSA	VDE (Icn)			CONSTRUCTION NOTES																												
	MAX. RATING	FREQUENCY	PHASE	FULL LOAD AMPS	WITH BACKUP FUSE 1	WITHOUT BACKUP FUSE	WITHOUT BACKUP FUSE	UL	CSA	CONSTRUCTION NOTES																												
	125	DC		0.02 - 120		5,000	5,000	TC1,2, OL1,U1	TC1,2, OL1,U1	1 - 2 Pole																												
SERIES & SHUNT	240	50 / 60	1 & 3	0.02 - 100		5,000	5,000	TC1,2, OL1,U1	TC1,2, OL1,U1	1 - 5 Poles; Up to 4 Current Poles, 1 Voltage Pole																												
	415	50 / 60	1 & 3	0.02 - 100	10,000		4,000	TC1,2, OL1,C1	TC1,2, OL1,C1	2 - 5 Poles; Up to 4 Current Poles, 1 Voltage Pole																												
	125	DC		0.02 - 120																																		
SWITCH ONLY	240	50 / 60	1 & 3	0.02 - 100																																		
	415	50 / 60	1 & 3	0.02 - 100																																		

Notes for Table C

Table D: Lists UL Recognized, CSA Accepted configurations and performance capabilities as Protectors, Supplementary for Marine Electrical and Fuel Systems (Guide PEQZ2, File E75596). Ignition Protected per UL 1500. UL Classified Small Craft Electrical Devices, Marine in accordance with ISO 8846 (Guide UZMK, File MQ1515) as Marine Supplementary Protectors.

E-SERIES TABLE D: UL1500 (Marine Ignition Protected)												
CIRCUIT CONFIGURATION		VOLTAGE		CURRENT RATING	SHORT CIRCUIT CAPACITY (AMPS)	APPLICATION CODES						
CONTIONATION	MAX. RATING	FREQUENCY	PHASE	FULL LOAD AMPS	WITHOUT BACKUP FUSE	UL	CSA					
	65	DC		0.02 - 100	5000	TC1,2,OL1,U1	TC1,2,OL1,U1					
SERIES	125	50 / 60	1	0.02 - 100	1500	TC1,2,OL1,U1	TC1,2,OL1,U1					
	250	50 / 60	1	0.02 - 100	1500	TC1,2,OL1,U1	TC1,2,OL1,U1					

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¹ Requires branch circuit backup with a UL LISTED Type K5 or RK5 fuse rated 15A minimum and no more than 4 times full load amp rating and not to exceed 225 amps

¹ Requires branch circuit backup with a UL LISTED Type K5 or RK5 fuse rated 15A minimum and no more than 4 times full load amp rating and not to exceed 225 amps.

Electrical

Maximum Voltage 600VAC 50/60 Hz, 125VDC (See

Table A)

Current Ratings Standard current coils: 0.100, 0.250, 0.500, 1.00, 2.50, 5.00, 7.50, 10.0,

15.0, 20.0, 25.0, 30.0, 50.0, 60.0,

70.0 & 100 Amp.

Auxiliary Switch Rating SPDT; 10.1A 250VAC, 1.0A 65VDC;

0.5A 80VDC, 0.1A 125VAC (with

gold contacts).

Insulation Resistance Minimum of 100 Megohms at 500

VDC.

Dielectric Strength UL, CSA: 2200 V 50/60 Hz for one

minute between all electrically isolated terminals. E-Series Circuit
Breakers comply with the 8mm spacing and 3750V 50/60 Hz dielectric requirements from hazardous voltage to operator accessible surfaces, between adjacent poles and from main circuits to auxiliary circuits per Publications EN 60950 and

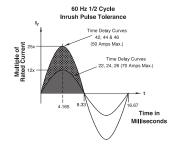
VDE 0805.

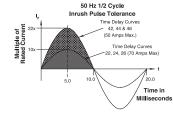
Resistance, Impedance Values from Line to Load Terminal -

based on Series Trip Circuit Breaker.

CURRENT (AMPS)	TOLERANCE (%)
0.10 - 5.0	± 15%
5.1 - 20.0	± 25%
20.1 - 125.0	± 35%

Pulse Tolerance Curves





Mechanical

Endurance 10,000 ON-OFF operations @ 6 per

minute; with rated Current and

Voltage.

Trip Free All E-Series Circuit Breakers will trip

on overload, even when Handle is forcibly held in the ON position. The operating Handle moves posi-

tively to the OFF position when an overload causes the breaker to trip.

Physical

Trip Indication

Number of Poles 1 - 6

Connectors, Box Type

Mounting A 3" minimum spacing must be pro-

vided between the circuit breaker

arc venting area on back

connected E-Series circuit breakers and grounded obstructions. E-Series circuit breakers must be mounted on a vertical surface.

Front connected E-Series circuit

breakers are supplied with box type pressure connectors that accept copper or aluminum conductors as follows: 1/0-14 Copper, 1/0-12

Aluminum.

Internal Circuit Series and Switch Only, (with or

Configuration without auxiliary switch). Shunt with

current coils.

Weight Approximately 252 grams/pole

(Approximately 9 ounces/pole)

Standard Colors Housing-Black; Actuator - See

Ordering Scheme.

Environmental

Thermal Shock

Designed and tested in accordance with requirements of specifi-

cation MIL-PRF- 55629 and MIL-STD-202 as follows:

Shock Withstands 100 Gs. 6ms. sawtooth

while carrying rated current per Method 213, Test Condition "I".

Vibration Withstands 0.060" excursion from

10-55 Hz, and 10 Gs 55-500 Hz, at rated current per Method 204C,

Test Condition A.

Moisture Resistance Method 106D, i.e., ten 24-hour

cycles @ + 25°C to +65°C, 80-98%

RH.

Salt Spray Method 101, Condition A (90-95%

RH @ 5% NaCl Solution, 96 hrs). Method 107D, Condition A (Five cycles @ -55°C to +25°C to +85°C

to +25°C).

Operating Temperature -40° C to +85° C



Series	Actuator	Poles		Circuit	Switch		& De	uency lay
1 SE E	RIES							
2 40	TUATOR							
Hand	dle							
Α	Handle, one	per poie	,					
3 PO	LES ¹ One		_	- .		_		
1 2	One Two		3 4	Three Four		5 6	Fiv Six	
4 CIF	Switch Only	(No Coi	I)	Е	Shunt T	rin (\/o	ltane)	
B	Series Trip (F	Relay T			
C D	Series Trip (G	Relay T	rip (Vo	ltage)	
U	Shunt Trip (0	Jurrent)						
5 AU	XILIARY SWI	TCH4						
0 2	without Auxil S.P.D.T. 0.11			6 7				Terminals Terminals
3	S.P.D.T. 0.11 S.P.D.T. 0.1			,	(Gold C			reminds
4	S.P.D.T. 0.11		Terminals		S.P.D.T	0.187	Q.C.	Terminals
	(Gold Conta	cts)		9	S.P.D.T.	. 0.187	' Q.C.	Terminals
6 FRI	EQUENCY & D	ELAY		34	DC, 50	60Hz	Mediu	m
03 ³	DC 50/60Hz	, Switch	Only	36	DC, 50	60Hz	Long	
10⁵ 12	DC Instanta	neous		62 64	50/60H			nrush Hi-Inrush
14	DC Medium			66	50/60H			
16	DC Long				DC, Sh			-1-
20⁵ 22	50/60Hz Instantaneous 50/60Hz Short				DC, Med DC, Lo			
24	50/60Hz Medium							Hi-Inrush n,
26 30	50/60Hz Lor DC, 50/60Hz		aneous	946	Hi-Inrus		viediui	n,
32	DC, 50/60Hz		ancous	96 ⁶			Long,	Hi-Inrush
7.011	DDENT DAT	NC /AM	DEDEC)	7				
020	0.020	235	0.350	430	3.000		614	14.000
025	0.025	240	0.400	435	3.500		615	15.000
030	0.030	245	0.450	440	4.000		616	16.000
035 040	0.035 0.040	250 255	0.500 0.550	445 450	4.500 5.000		617 618	17.000 18.000
045	0.045	260	0.600	455	5.500		620	20.000
050 055	0.050 0.055	265 270	0.650 0.700	460 465	6.000 6.500		622 624	22.000 24.000
060	0.060	275	0.750	470	7.000		625	25.000
065	0.065	280	0.800	475	7.500		630	30.000
070 075	0.070	285	0.850	480 485	8.000 8.500		635 640	35.000
080	0.075 0.080	290 295	0.900 0.950	490	9.000		650	40.000 50.000
085	0.085	410	1.000	495	9.500		660	60.000
090	0.090	512 415	1.250	610 710	10.000		670 680	70.000
090 210	0.095 0.100	517	1.500 1.750	611	10.500 11.000		690	80.000 90.000
215	0.150	420	2.000	711	11.500		810 1	00.000
220 225	0.200 0.250	522 425	2.250 2.500	612 712	12.000 12.500			110.000
230	0.300	527	2.750	613	13.000			25.000
OR V A06	OLTAGE CO 6 DC, 5 D			TING, VOL 55 DC, 55 D		J48	48 A	C, 40 AC
A12	12 DC, 10 D			DC, 100 E		J65		C, 40 AC C, 55 AC
A18	18 DC, 15 D	С	J06	6 AC, 5 A	AC .	K20	120 A	C, 65 AC
A24 A32	24 DC, 20 D 32 DC, 25 D			12 AC, 10 <i>A</i> 18 AC, 15 <i>A</i>		L4U 2	40 AC	, 130 AC
A48	48 DC, 40 D			24 AC, 20 A				
IOTES								

NOTES

- VDE approval on 1-5 poles only. Standard multi-pole units identical poles except when specifying auxiliary switch (see Note 4). For mixed ratings, consult factory.
- Switch Only & Series Trip construction available w/either front or back connected terminals.
- Shunt construction available w/back connected terminals, (Terminal Codes 1 & 2) only. Circuit Codes B,C & D are VDE approved.

 Switch Only construction: 30 amps or less select Current Rating Code 630; 31-70 amps, select Current Rating code 670; 71-100 amps, select Current Rating Code 810; 101-125 amps Select Current Rating Code 912. Switch Only is VDE approved only if tied to a pro-
- Auxiliary Switch available on Switch Only and Series Trip units. On multi-pole units, only one auxiliary switch is normally supplied mounted in the extreme right pole. Back mounted units require special mounting provisions when auxiliary switch is specified. VDE approval on Auxiliary Switch Codes 0,2,3 & 4 only.

	Ra	ting	
8 TE	RMINAL ¹²		
	K CONNECTED (FRONT MOUNTED ONLY)	MAX.	RATING
1º	10-32 Stud (All Terminals)		50 A
2 9	1/4-20 Stud (All Terminals)		100 A
A ⁹	M5 Stud (Line & Load)		50 A
Вº	M6 Stud (Line & Load)		100 A
	NT CONNECTED (BACK MOUNTED ONLY)	MAX.	RATING
3 ¹⁰	Box Wire Connector (Line & Load)		100 A
C11	Box Wire Connector w/ Pressure Plate (Line & Load)		100 A
4	10-32 Screw (Line & Load)		50 A
D	M5 Screw (Line & Load)		50 A
5	10-32 "Bus-Type" Screw (Line), 10-32 Screw (Load)		50 A
E	M5 "Bus-Type" Screw (Line), 10-32 Screw (Load)		50 A
6¹º	10-32 "Bus-Type" Screw (Line), Box Wire Connector (L	.oad)	100 A
F11	10-32 "Bus-Type" Screw (Line), Box Wire Connector		
	w/ Pressure Plate (Load)		100 A
7	1/4-20 Screw (Line & Load)		100 A
G	M6 Screw (Line & Load)		100 A
8	1/4-20 "Bus-Type" Screw (Line), 1/4-20 Screw (Load)		100 A
Н	M6 "Bus-Type" Screw (Line), M6 Screw (Load)		100 A
910	1/4-20 "Bus-Type" Screw (Line), Box Wire Connector (I	₋oad)	100 A
J ¹¹	1/4-20 "Bus-Type" Screw (Line), Box Wire Connector		400.4
	w/ Pressure Plate (Load)		100 A

9 ACTUATOR COLOR & LEGEND ¹³							
Actuator Color	Markii	ng:		Marking Color:			
Color:	I-O	ON-OFF	Dual	_			
White	Α	В	1	Black			
Black	С	D	2	White			
Red	F	G	3	White			
Green	Н	J	4	White			
Blue	K	L	5	White			
Yellow	M	N	6	Black			
Gray	Р	Q	7	Black			
Orange	R	S	8	Black			

10 MOUNTING/BARRIERS BACK CONNECTED (FRONT MOUNTED ONLY) Mounting Inserts

В ISO M3

FRO	NT CONNECTED (BACK MOU	NTED ONLY) 14
	Back Mounting Foot Type	Front Mounting Inserts (Optional Use)
С	Short	6-32
D	Short	ISO M3
Е	Long	6-32
F	Long	ISO M3

11 MAXIMUM APPLICATION RATING¹⁵

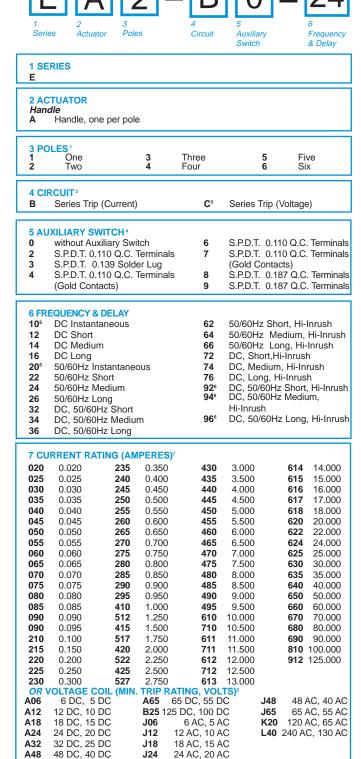
Α	65 VDC, 120 A	G ¹⁶	600 VAC, 100 A
В	125 VDC, 120 A	H^{16}	480 VAC, 100 A
С	120/240 VAC, 100 A	J ¹⁶	415 VAC, 100 A
D	240 VAC, 100 A	L16	160 VDC, 100 A
E ¹⁶	277/480 VAC, 100 A	Т	125 VDC/240 VAC, 100 A
F	277 VAC, 100 A	W^{16}	125 VDC/415 VAC, 100 A

12 AGENCY APPROVAL

- UL 1077 / UL508 Recognized & CSA Accepted
- UL 1077 Recognized, CSA Accepted, & VDE Certified
- Voltage Trip Coils are not rated for continuous duty. Available only with Frequency & Delay Codes 10 & 20. Series Trip construction with a voltage coil s VDE approved only if tied to a protected pole
- Frequency & Delay Codes 92,94 & 96 are not VDE Certified. Current Coil Ratings 0.100 100 ams are VDE Certified.
- 125 A rating (Code 912) available as a Switch Only (Circuit Code A), rated 125 VDC (Code B).
- An Anti-Flash Over Barrier is supplied between poles on multi-pole units with 10-32 (Terminal Code 1). 1/4-20 (Code 2), M5 (Code A), and M6 (Code B) terminals per UL requirement.
- Box Wire Connector will accept #14 through 0 AWG. copper wire or #12 through 0 AWG. 10 aluminum wire.
- Box Wire Connector with Pressure Plate for stranded wire, consult factory for details. 11
- Terminal Codes A,B,D,E,G & H are not VDE Certified. 12
- VDE approvals require Dual (I-O, ON-OFF) or I-O markings on all handles.
- 14 Back Mounted breakers can also be front mounted by utilizing the proper front panel mounting inserts normally supplied. However, terminal connections must be made prior to mounting.

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- Application ratings B,D,J,T & W are available with VDE.
- 16 415, 480 & 600 VAC ratings require 3 or 4 pole break 3Ø and 2 pole break 1Ø.



450	_	1	2	Α	 C	C
7 Current Rating		8 Terminal	9 Actuator	10 Mounting/	11 Maximum	12 Agency

Color

Barriers

Application Rating

8 TE	RMINAL ⁷	
BAC	K CONNECTED (FRONT MOUNTED ONLY)	MAX. RATING
1°	10-32 Stud (All Terminals)	50 A
2°	1/4-20 Stud (All Terminals)	100 A
FRO	NT CONNECTED (BACK MOUNTED ONLY)	MAX. RATING
3°	Box Wire Connector (Line & Load)	100 A
C10	Box Wire Connector w/ Pressure Plate (Line & Load)	100 A
4	10-32 Screw (Line & Load)	50 A
5	10-32 "Bus-Type" Screw (Line), 10-32 Screw (Load)	50 A
6°	10-32 "Bus-Type" Screw (Line), Box Wire Connector (Lo	ad) 100 A
F ¹⁰	10-32 "Bus-Type" Screw (Line), Box Wire Connector	
	w/ Pressure Plate (Load)	100 A
7	1/4-20 Screw (Line & Load)	100 A
8	1/4-20 "Bus-Type" Screw (Line), 1/4-20 Screw (Load)	100 A
9°	1/4-20 "Bus-Type" Screw (Line), Box Wire Connector (Lo	oad) 100 A
J ¹⁰	1/4-20 "Bus-Type" Screw (Line), Box Wire Connector	
	w/ Pressure Plate (Load)	100 A

9 ACTUATOR COLOR & LEGEND ¹²							
Actuator Color:	Marking:		Marking Color:				
Color:	ON-OFF	Dual					
White	В	1	Black				
Black	D	2	White				
Red	G	3	White				
Green	J	4	White				
Blue	L	5	White				
Yellow	N	6	Black				
Gray	Q	7	Black				
Orange	S	8	Black				

BAC	BACK CONNECTED (FRONT MOUNTED ONLY)					
	Mounting Inserts					
Α	6-32					
В	ISO M3					
FRO	ONT CONNECTED (BACK MOU	NTED ONLY) 11				
	Back Mounting Foot Type	Front Mounting Inserts (Optional Use)				
С	Short	6-32				
D	Short	ISO M3				
Е	Long	6-32				

ISO M3

11 MAXIMUM APPLICATION RATING				
В	125 VDC, 100A			
C13	120/240 VAC, 100A			
D	240 VAC, 100A			

10 MOUNTING/BARRIERS

UL 489 Listed & CSA Certified

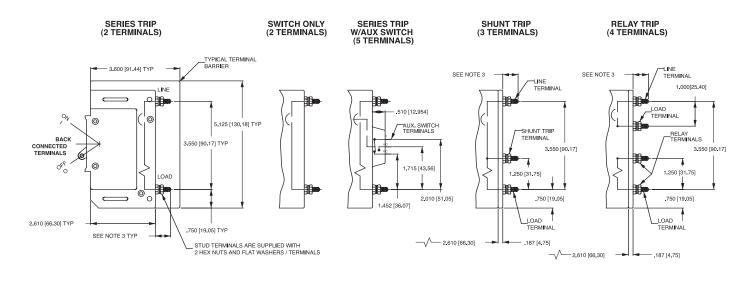
UL 489 Listed, CSA Certified, & VDE Certified

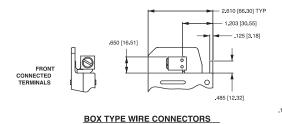
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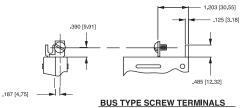
Long

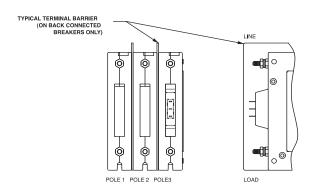
- Standard multi-pole units identical poles except when specifying auxiliary switch (see
- Note 4). For mixed ratings, consult factory. VDE Certification on 1-5 poles only. Series Trip construction available w/either front or back connected terminals.
- Series Trip construction with a voltage coil is not available as a single pole unit and must
- On multi-pole units, only one auxiliary switch is normally supplied mounted in the extreme right pole per Figure A. Back mounted units require special mounting provisions when auxiliary switch is specified. VDE Certification on auxiliary switch codes 0, 2, 3 & 4 only.
- Voltage Trip Coils are not rated for continuous duty. Available only with Frequency & Delay Codes 10 & 20.
- Frequency & Delay Codes 92, 94 & 96 are not VDE Certified.
- Current Ratings under 0.100 amps are not VDE Certified
- An Anti-Flash Over Barrier is supplied between poles on multi-pole units with 10-32 Stud (Terminal Code 1) or 1/4-20 Stud (Code 2) terminals per UL requirement. 8
- 9 Box Wire Connector will accept #14 through 0 AWG. copper wire or #12 through 0 AWG.
- Box Wire Connector with Pressure Plate for stranded wire, consult factory for details
- 11 Back Mounted breakers can also be front mounted by utilizing the proper front panel mounting inserts normally supplied. However, terminal connections must be made prior to 12
- VDE Certification requires dual (I-O , ON-OFF) markings on all handles

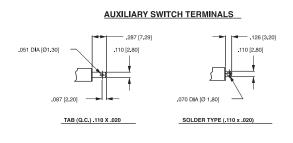
Not available with VDE Certification. 13









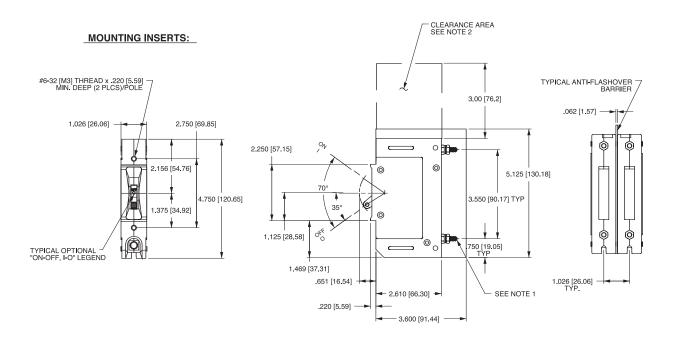


MULTI-POLE IDENTIFICATION SCHEME

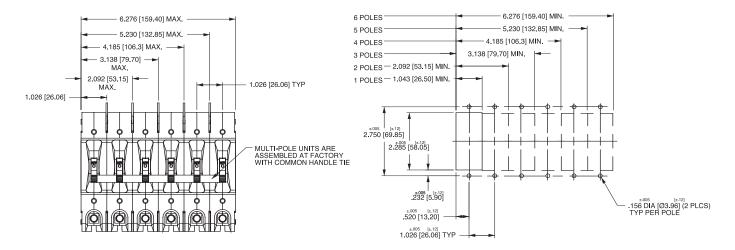
TABLE A TIGHTENING TORQUE SPECIFICATIONS						
THREAD SIZE TERMINAL TYPE	WIRE SIZE	TORQUE				
#6-32 [M3] HARDWARE		7-9 IN-LBS [0,8-1,0 NM]				
#10-32 THD TERMINAL SCREW	ALL	15-20 IN-LBS [1,7-2,3 NM]				
1/4-20 THD TERMINAL SCREW	ALL	30-35 IN-LBS [3,4-4,0 NM]				
#10-32 STUDS	ALL	15-20 IN-LBS [1,7-2,3 NM]				
1/4-20 STUDS	ALL	30-35 IN-LBS [3,4-4,0 NM]				
	14-10 AWG	35 IN-LBS [4.0 NM]				
BOX WIRE	8 AWG	40 IN-LBS [4.5 NM]				
CONNECTOR	6-4 AWG	45 IN-LBS [5.1 NM]				
	3-1/0 AWG	50 IN-LBS [5.7 NM]				

- All dimensions are in inches [millimeters]. Tolerance $\pm .020$ [.51] unless otherwise specified.
- 0-50 amps: 10-32 & M5 Studs .625±062/15.88±1.574 long. 51-120 amps: 1/4-20 & M6 Studs .750±.062/19.05±1.574 long.

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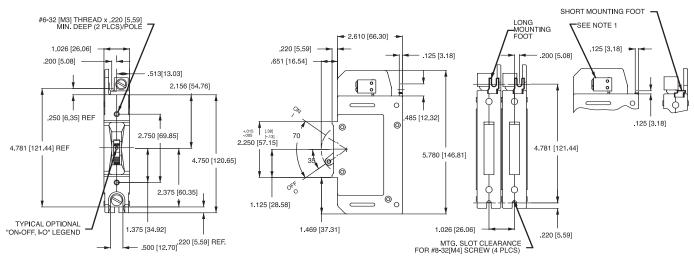
PANEL CUTOUT DETAIL

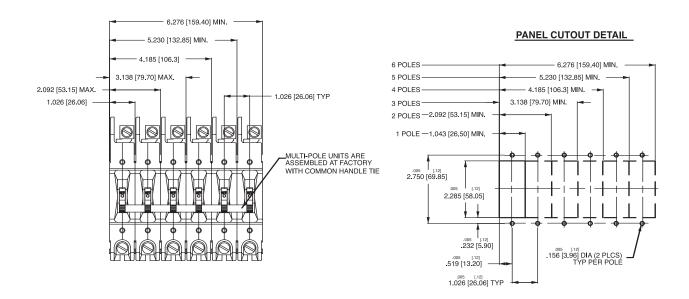


- 1/4 -20 stud terminal in Series Trip circuit configuration shown.
- A 3" min spacing must be provided between the circuit breaker arc venting area of back connected E-Series circuit breaker and grounded obstructions. All dimensions are in inches [millimeters].
- 3 4 Tolerance ±.020 [.51] unless otherwise specified.
- Circuit breakers must be mounted on vertical surface.

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MOUNTING INSERTS:





Notes:

- All dimensions are in inches [millimeters].
- Tolerance ±.020 [.51] unless otherwise specified.
- Box wire connector terminal in Series Trip circuit configuration shown. Circuit breakers must be mounted on vertical surface. 3 4

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