E-Series CIRCUIT BREAKER

The E-Series hydraulic-magnetic circuit breaker is ideally suited for higher current and voltage applications. It is UL listed and CSA certified for branch circuit protection, which does not require a fuse back up. It is also UL recognized and CSA certified as a supplementary protector and as a manual motor controller.

Its physical features include front and back mounting, screw and stud terminals and heavy duty box wire connectors for solid wire or a pressure plate connector for standard wire. The E-series is available with handle actuators and can be configured as .1-125 amps, up to 600VAC or 125VDC, with choice of time delays, actuator colors and 1 to 6 poles configuration. Additionally, a Power Selector device is also available.



Product Highlights:

- UL listed and CSA certified
- Certified for circuit branch protection
- Recognized as a supplementary protector and as a manual motor controller
- Optional power selector device







Typical Applications:

- High Voltage/High Current Applications
- Renewable Energy
- Military
- Industrial Controls
- Generators

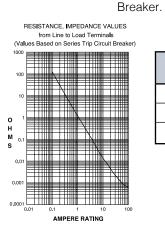


Carling Technologies, Inc. 60 Johnson Avenue, Plainville, CT 06062 Email: sales@carlingtech.com Application Support: team2@carlingtech.com Phone: 860.793.9281 Fax: 860.793.9231

www.carlingtech.com

Electrical

Maximum Voltage	600VAC 50/60 Hz, 125VDC (See Table A)	En
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.	Tri
Auxiliary Switch Rating	SPDT; 10.1A 250VAC, 1.0A 65VDC; 0.5A 80VDC, 0.1A 125VAC (with gold contacts).	Tri
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.	PI Nu Ma
Resistance, Impedance		Co



CURRENT (AMPS)	TOLERANCE (%)
0.10 - 5.0	± 15
5.1 - 20.0	± 25
20.1 - 50.0	± 35

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.
Trip Indication	The operating Handle moves positively to the OFF position when an overload causes the breaker to trip.

Physical

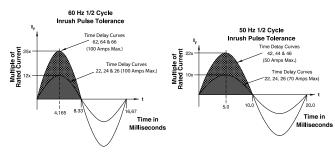
Number of Poles Mounting	1 - 6 A 3" minimum spacing must be provided between the circuit breaker arc venting area on back connected E-Series circuit breakers and grounded obstructions. E-Series circuit breakers must be mounted on a vertical surface.
Connectors, Box Type	Front connected E-Series circuit 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 Configuration	Series and Switch Only, (with or 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

Designed in accordance with requirements of specification MIL PRF-55629 & MIL-STD-202G as follows:

Shock	Withstands 100 Gs, 6ms, sawtooth while carrying rated current per
Vibration	Method 213, Test Condition "I". Withstands 0.060" excursion from 10-55 Hz, and 10 Gs 55-500 Hz, at rated current per Method 204C.
Moisture Resistance	Test Condition A. 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).
Thermal Shock	Method 107D, Condition A (Five cycles @ -55° C to $+25^{\circ}$ C to $+85^{\circ}$ C to $+25^{\circ}$ C).
Operating Temperature	-40° C to +85° C

Pulse	Tolerance	Curves
1 0130	roloranoc	Ourves



*Manufacturer reserves the right to change product specification without prior notice.

Electrical Tables

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								
		VOLTAGI	E	CURRENT RATING	INTERRUPTING CAPACITY (AMPS)	HIGH			
CIRCUIT CONFIGURATION	MAX. RATING	FREQUENCY	PHASE	FULL LOAD AMPS	WITHOUT BACKUP FUSE	INTERRUPTING CAPACITY (AMPS)			
	80	DC		0.10 - 100	5,000	50,000			
	125	DC		0.10 - 100	5,000	10,000			
	125	DC		0.10 - 125	10,000				
	120	50 / 60	1	0.10 - 125	10,000				
SERIES	240	50 / 60	1	0.10 - 30	5,000	10,000			
	240	50 / 60	1	31 - 100	5,000				
	120 / 240	50 / 60	1	0.10 - 30	5,000	10,000			
	120 / 240	50 / 60	1	31 - 100	5,000				
	120 / 240	50 / 60	1	101 - 125	10,000				
	240	50 / 60	3	0.10 - 100	5,000				

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

E -SERIES TABLE B: COMPONENT SUPPLEMENTARY PROTECTORS									
	VOLTAGE			CURR	ENT RATING	SHORT CIRCUIT	CAPACITY (AMPS)	APPLICATION CODES	
CIRCUIT	сиіт					UL/	CSA	-	
CONFIGURATION	MAX. RATING	FREQUENCY	PHASE	FULL LOAD AMPS	GENERAL PURPOSE AMPS	WITH BACKUP FUSE ³	WITHOUT BACKUP FUSE	UL	CSA
	125	DC		0.02 - 100			5,000	TC1,2, OL1, U1	TC1,2, OL1, U
	125	DC			101 - 120		5,000	TC1,2, OL0, U1	TC1,2, OL0, U
	150	DC			0.02 - 125		5,000	TC1, OL0, U3	TC1, OL0, U3
	160	DC		0.02 - 100			5,000	TC1,2, OL1, U1	TC1,2, OL1, U
	150 / 300	DC		0.02 - 100			5,000	TC1,2, OL1, U1	TC1,2, OL1, U
SERIES &	120 / 240	50 / 60	1		0.02 - 100		5,000	TC1,2, OL0, U1	TC1,2, OL0, U
SHUNT	240	50 / 60	1	0.02 - 100			5,000	TC1,2, OL1, U1	TC1,2, OL1, U
	250	50 / 60	1	0.02 - 100		10,000		TC1,2, OL1, C1	TC1,2, OL1, C
	277	50 / 60	1	0.02 - 100		10.000	5,000	TC1,2, OL1, U1 TC1,2, OL1, C1	
	480	50 / 60	1&3	0.02 - 100		10,000		TC1,2, OL1, C1	
	480 ¹	50 / 60	1&3	0.02 - 50		10,000		TC1,2, OL1, C1	
	600	50 / 60	1&3	0.02 - 100		10,000		TC1,2, OL1, C1	TC1,2, OL1, C
	600 ²	DC			0.02 - 125		5,000	TC1, OL0, U3	TC1, OL0, U3
	125	DC		0.02 - 120					
	160	DC		0.02 - 100	1				
SWITCH	240	50 / 60	1	0.02 - 100	1				
ONLY	277	50 / 60	1	0.02 - 100	1				
	480	50 / 60	1&3	0.02 - 100					
	600	50 / 60	1&3	0.02 - 100					

 Notes:

 1
 Per pole opposite polarity rating - Delta Configuration.

 2
 4 Poles connected in series

 3
 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 225A.

Electrical Tables

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 WITH VDE										
		VOLTAGE		CURRENT RATING SHORT CIRCUIT CAPACITY (AMPS)			APPLICAT	ION CODES		
CIRCUIT					UL/CS	SA	VDE (lcn)			
CONFIGURATION	MAX. RATING	FREQUENCY	PHASE	FULL LOAD AMPS	WITH BACKUP FUSE ¹	WITHOUT BACKUP FUSE	WITHOUT BACKUP FUSE	UL	CSA	CONSTRUCTION NOTES
	125	DC		0.1 - 100		5,000	5,000	TC1,2, OL1, U1	TC1,2, OL1, U1	1 or 2 Poles
SERIES &	240	50 / 60	1&3	0.1 - 100		5,000	5,000	TC1,2, OL1, U1	TC1,2, OL1, U1	1 - 5 Poles. Up to 4 Current Poles, 1 Voltage Pole
SHUNT	415	50 / 60	1&3	0.1 - 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		0.1 - 125						
SWITCH ONLY	240	50 / 60	1&3	0.1 - 100						
	415	50 / 60	1&3	0.1 - 100						

Notes: 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.

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 Protection)								
		VOLTAG	E		SHORT CIRCUIT				
CIRCUIT	MAX.		PHASE	CURRENT RATING	CAPACITY (AMPS)	APPLICATION CODES			
CONFIGURATION	RATING	FREQUENCY		FULL LOAD AMPS	WITHOUT BACKUP FUSE	UL	CSA		
	65	DC		0.02 - 100	5,000	TC1,2,0L1,U1	TC1,2,0L1,U1		
SERIES	125	50 / 60	1	0.02 - 100	1,500	TC1,2,0L1,U1	TC1,2,OL1,U1		
	250	50 / 60	1	0.02 - 100	1,500	TC1,2,OL1,U1	TC1,2,OL1,U1		

Agency Certifications

UL Standard 1077	Component Recognition Program as Protectors, Supplementary (Guide QVNU2, File E75596)	(
	Component Recognition Program as Manual Motor Controls (Guide NLRV2, File E135367)	(
UL Standard 1500	Protectors, Supplementary for Marine Electrical & Fuel Systems (Guide PEQZ2, File E75596) Ignition Protection	-
UL Listed		
UL Standard 489	Circuit Breakers, Molded Case (Guide DIVQ, File E129899)	¢



CSA Certified (SP

TUV Certified

VDE Certified

Component Supplementary Protector (Class 3215 30, File 047848 0 000) CSA Standard C22.2 No. 235

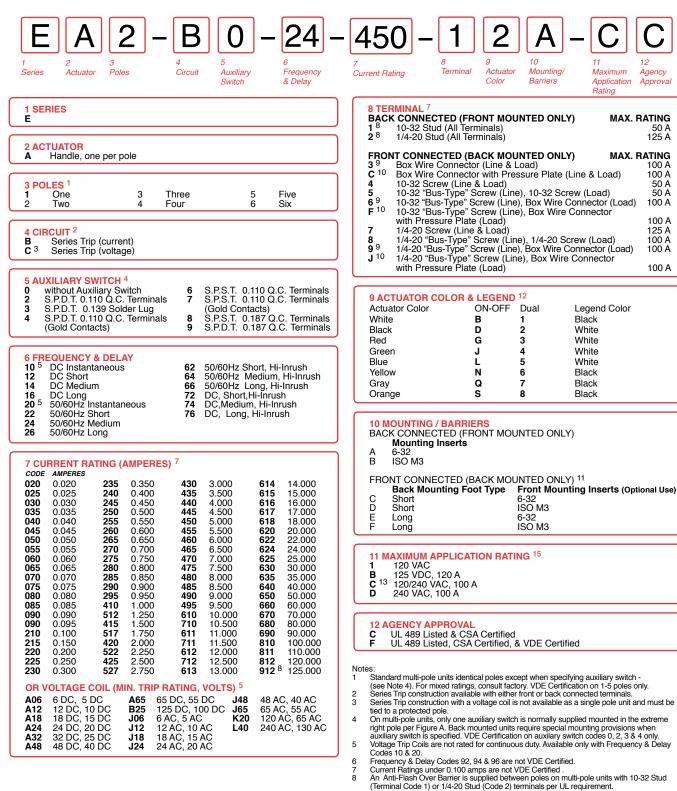
Circuit Breaker Molded Case (Class 1432 01, File 093910), CSA Standard C22.2 No. 5.1 - M

EN60934 under License No. R72031056

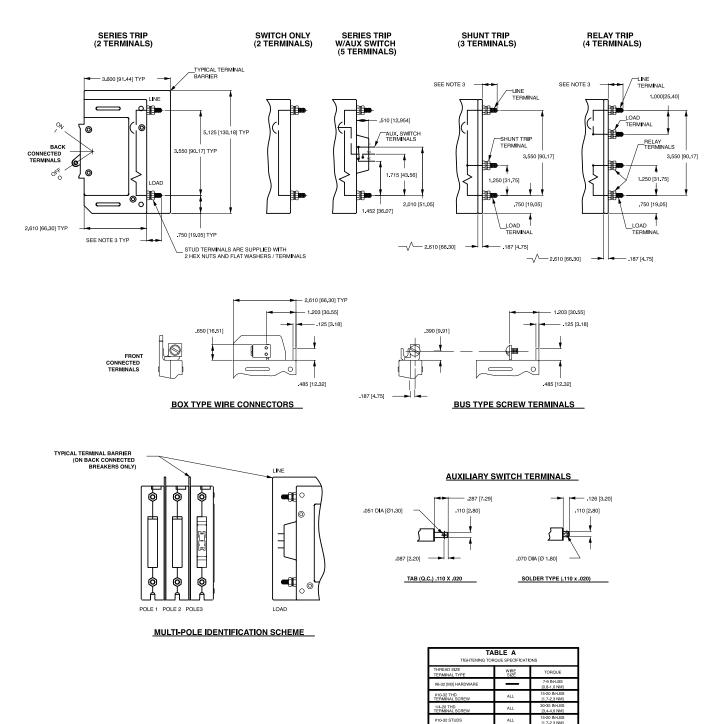
EN60934, VDE 0642 under File No. 10537

$E \begin{bmatrix} A \\ 2 \\ Actuator \end{bmatrix} = \begin{bmatrix} 2 \\ Poles \end{bmatrix} = \begin{bmatrix} B \\ 4 \\ Circuit \end{bmatrix} = \begin{bmatrix} 0 \\ 4 \\ Auxiliary \\ Switch \end{bmatrix} = \begin{bmatrix} 0 \\ 2 \\ 4 \\ Circuit \end{bmatrix} = \begin{bmatrix} 0 \\ 2 \\ Circuit \end{bmatrix} = \begin{bmatrix} 0 \\ 2 \\ Circuit \end{bmatrix} = \begin{bmatrix} 0 $	$450 - 1 \qquad 2 \qquad A - C \qquad B$ $\frac{8}{\text{Terminal}} \qquad \frac{9}{\text{Actuator}} \qquad \frac{10}{\text{Mounting}} \qquad \frac{11}{\text{Maximum}} \qquad \frac{12}{\text{Approval}}$
1 SERIES E 2 ACTUATOR A Handle, one per pole	8 TERMINAL 12 MAX. RATING BACK CONNECTED (FRONT MOUNTED ONLY) MAX. RATING 1 9 10-32 Stud (All Terminals) 50 A 2 9 1/4-20 Stud (All Terminals) 120 A A 9 M5 Stud (Line & Load) 50 A B M6 Stud (Line & Load) 100 A
3 POLES 1 1 One 3 Three 5 Five 2 Two 4 Four 6 Six 4 CIRCUIT ²	FRONT CONNECTED (BACK MOUNTED ONLY)MAX. RATING3 10Box Wire Connector (Line & Load)100 AC 11Box Wire Connector with Pressure Plate (Line & Load)100 A410-32 Screw (Line & Load)50 ADM5 Screw (Line & Load)50 A510-32 "Bus-Type" Screw (Line), 10-32 Screw (Load)50 A5M5 "Bus-Type" Screw (Line), 10-32 Screw (Load)50 A
A ³ Switch Only (no coil) E Shunt Trip (voltage) B Series Trip (current) F Relay Trip (current) C Series Trip (voltage) G Relay Trip (voltage) D Shunt Trip (current) G Relay Trip (voltage) 5 AUXILIARY SWITCH 4 6 S.P.S.T. 0.110 Q.C. Terminals 2 S.P.D.T. 0.110 Q.C. Terminals 7 S.P.S.T. 0.110 Q.C. Terminals	6 10 10-32 "Bus-Type" Screw (Line), Box Wire Connector (Load) 100 A F 11 10-32 "Bus-Type" Screw (Line), Box Wire Connector with Pressure Plate (Load) 100 A 7 1/4-20 Screw (Line & 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 8 1/4-20 "Bus-Type" Screw (Line), 1/4-20 Screw (Load) 100 A 9 10 1/4-20 "Bus-Type" Screw (Line), Sox Wire Connector (Load) 100 A 9 10 1/4-20 "Bus-Type" Screw (Line), Box Wire Connector (Load) 100 A 9 11 1/4-20 "Bus-Type" Screw (Line), Box Wire Connector 100 A
3 S.P.D.T. 0.139 Solder Lug (Gold Contacts) 4 S.P.D.T. 0.110 Q.C. Terminals (Gold Contacts) 8 S.P.S.T. 0.187 Q.C. Terminals 9 S.P.D.T. 0.187 Q.C. Terminals 9 S.P.D.T. 0.187 Q.C. Terminals 6 FREQUENCY & DELAY 03 ³ DC 50/60Hz, Switch Only 34 DC, 50/60Hz Medium 10 5 DC Instantaneous 36 DC, 50/60Hz Long	with Pressure Plate (Load) 100 Å 9 ACTUATOR COLOR & LEGEND 13 Actuator Color I-O ON-OFF Dual Legend Color White A B 1 Black Black C D 2 White Red F G 3 White
12 DC Short 62 50/60Hz Short, Hi-Inrush 14 DC Medium 64 50/60Hz Medium, Hi-Inrush 16 DC Long 66 50/60Hz Medium, Hi-Inrush 20 5 50/60Hz Instantaneous 72 DC, Short, Hi-Inrush 22 50/60Hz Neotium 74 DC, Medium, Hi-Inrush 24 50/60Hz Medium 76 DC, Long, Hi-Inrush 26 50/60Hz Instantaneous 92 6° DC, 50/60Hz Short, Hi-Inrush 30 DC, 50/60Hz Instantaneous 94 6° DC, 50/60Hz Medium, Hi-Inrush 32 DC, 50/60Hz Short 94 6° DC, 50/60Hz Long, Hi-Inrush	Green H J 4 White Blue K L 5 White Yellow M N 6 Black Gray P Q 7 Black Orange R S 8 Black 10 MOUNTING / BARRIERS 10 10 10
7 CURRENT RATING (AMPERES) 7 CODE AMPERES 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 0.035 250 0.500 445 4.500 617 17.000 040 0.040 255 0.550 450 5.000 618 18.000 045 0.045 260 0.600 455 5.500 620 20.000 050 0.050 265 0.650 460 6.000 622 22.000 055 0.055 270 0.700 465 6.500 624 24.000	BACK CONNECTED (FRONT MOUNTED ONLY) Mounting Inserts A 6-32 B ISO M3 FRONT CONNECTED (BACK MOUNTED ONLY) ¹⁴ Back Mounting Foot Type Front Mounting Inserts (Optional Use) C Short 6-32 D Short ISO M3 E Long 6-32 F Long ISO M3
060 0.060 275 0.750 470 7.000 625 25.000 065 0.065 280 0.800 470 7.500 630 30.000 070 0.070 285 0.850 480 8.000 635 35.000 075 0.075 290 0.900 485 8.500 640 40.000 080 0.080 295 0.950 490 9.000 650 50.000 085 0.085 410 1.000 495 9.500 660 60.000 090 0.095 415 1.500 710 10.500 680 80.000 210 0.100 517 1.750 611 11.000 690 90.000 215 0.150 512 2.000 711 11.500 810 100.000	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
220 0.200 522 2.250 612 12.000 811 110.000 225 0.250 425 2.500 712 12.500 812 120.000 230 0.300 527 2.750 613 13.000 912 8 125.000 OR VOLTAGE COIL (MIN. TRIP RATING, VOLTS) A06 6 DC, 5 DC A65 65 DC, 55 DC J48 48 AC, 40 AC A12 12 DC, 10 DC B25 125 DC, 100 DC J65 65 AC, 55 AC A18 18 DC, 15 DC J06 6 AC, 5 AC K20 120 AC, 65 AC A24 24 DC, 20 DC J12 12 AC, 10 AC L40 240 AC, 130 AC A32 32 DC, 25 DC J18 18 AC, 15 AC A48 48 DC, 40 DC J24 24 AC, 20 AC	12 AGENCY APPROVAL B UL 1077 / UL508 Recognized & CSA Accepted D UL 1077 Recognized, CSA Accepted, & VDE Certified 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 Auxilary Switch Codes 0,2,3 & 4 only. Voltage Trip Colis 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 arms are VDE Certified. 125 A rating (Code 9 12) available as a Switch Only (Circuit Code A), rated 125 VDC (Code
Votes: 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 with either front or back connected	 125 A rating (Code 912) available as a Switch Only (Circuit Code A), rated 125 VDC (Code 9 An Anti-Flash Over Barrier is supplied between poles on multi-pole units with 10-32 (Termi 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. aluminum wire.

- 2
- VUE 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 with either front or back connected terminals. Shunt construction available with 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 protected pole. 3
- Box Wire Connector will accept #14 through 0 AWG. copper wire or #12 tirrough 0 AWG. aluminum wire. Box Wire Connector with Pressure Plate for stranded wire, consult factory for details. Terminal Codes A,B,D,E,G & H are not VDE Certified. VDE approvals require Dual (I-O, ON-OFF) or I-O markings on all handles. 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. Application ratings B,D,J,T & W are available with VDE. 415, 480 & 600 VAC ratings require 3 or 4 pole break 3Ø and 2 pole break 1Ø. 11 12 13 14 15 16



- Box Wire Connector will accept #14 through 0 AWG. copper wire or #12 through 0 AWG 9 aluminum wire.
- 10 11
- aumnum wire. Box Wire Connector with Pressure Plate for stranded wire, consult factory for details. 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. VDE Certification requires dual (I-O, ON-OFF) markings on all handles. Not available with VDE Certification.
- 12 13



Circuit & Terminal Diagrams: in. [mm]

Notes

- 2
- 3 4
- All dimensions are in inches [millimeters]. Tolerance ±.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.
 - Email: sales@carlingtech.com Application Support: team2@carlingtech.com Phone: (860) 793–9281 Fax: (860) 793–9231 www.carlingtech.com

1/4-20 STUD

BOX WIRE CONNECTOR

ALL

14-10 AW0 8 AWG

6-4 AWG

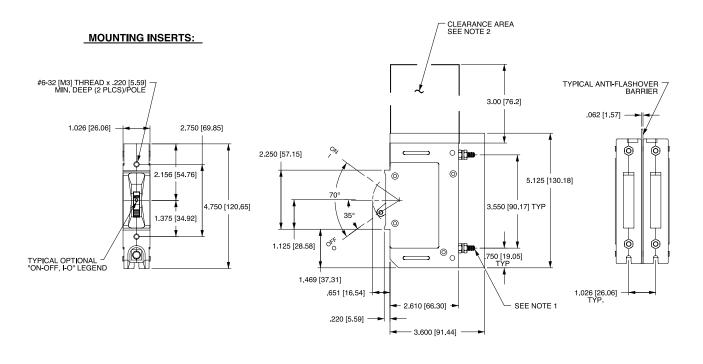
3-1/0 AV

3.4 ---35 IN LF 14.0 N

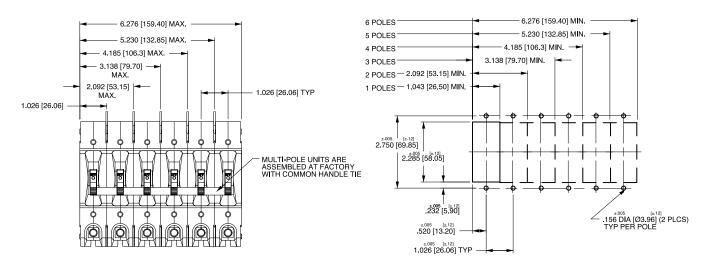
40 IN-LBS

45 IN-LE [5.1 N/

Dimensional Specifications: in. [mm]



PANEL CUTOUT DETAIL

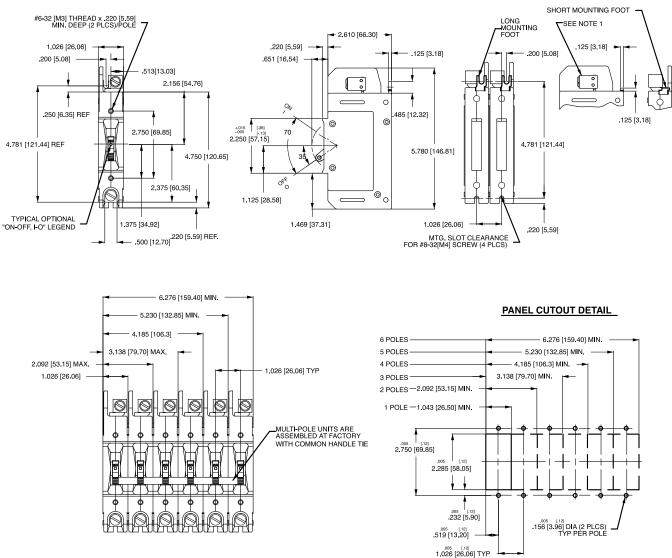


Notes

- 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
- 2

- All dimensions are in inches [millimeters]. All dimensions are in inches [millimeters]. Tolerance 2020 [.51] unless otherwise specified. Circuit breakers must be mounted on vertical surface. 3 4 5

Dimensional Specifications: in. [mm]



MOUNTING INSERTS:

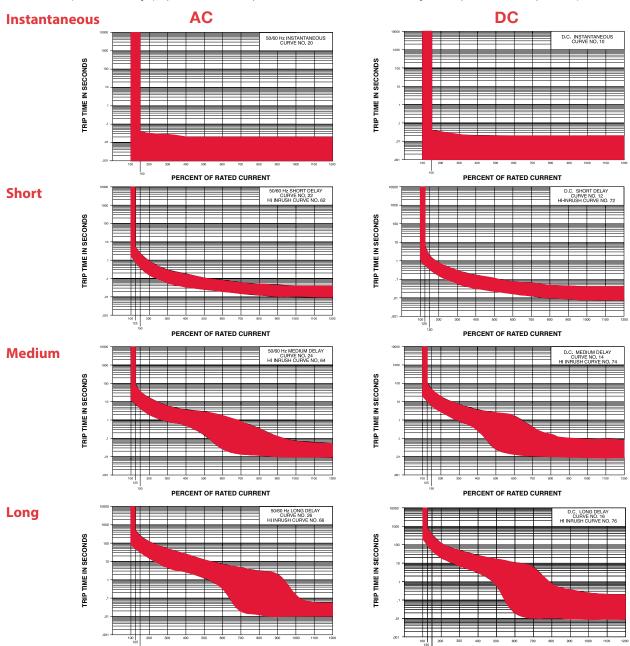
Notes

- 2
- s: 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. 34

E-SERIES TIME DELAY VALUES											
	PERCENT OF RATED CURRENT										
TRIP TIME (SECONDS)	Delay	100%	125%	135%	150%	200%	400%	600%	800%	1000%	1200%
	10	No Trip	May Trip		.001038	.001032	.001021	.001019	.001019	.001019	.001019
	12, 72	No Trip	.600 - 7.00		.330 - 2.00	.150800	.033 .160	.016071	.010048	.008040	.008040
	14, 74	No Trip	11.0 - 110		6.00 - 45.0	3.00 - 18.0	.280 - 3.50	.013 - 1.50	.010130	.009090	.009080
	16, 76	No Trip	100 - 800		50.0 - 360	20.0 - 120	3.00 - 25.0	.020 - 11.0	.010700	.009230	.009200
	20	No Trip	May Trip		.001040	.001 .031	.001020	.001020	.001020	.001020	.001020
	22, 62	No Trip	.800 - 5.00		.400 - 2.30	.150900	.034170	.020080	.012051	.010040	.009040
	24, 64	No Trip	7.20 - 90.0		4.40 - 35.0	2.00 - 15.0	.500 - 3.50	.025 - 1.60	.012330	.010070	.009050
	26, 66	No Trip	50.0 - 500		32.0 - 250	14.0 - 120	2.50 - 24.0	.320 - 7.00	.0125 - 3.10	.011 .130	.010055
	30	No Trip	May Trip		.001040	.001 .032	.001020	.001020	.001020	.001020	.001020
	32, 92	No Trip	May Trip	.450 - 5.20	.330 - 2.30	.150900	.033 .170	.016080	.009051	.008040	.008040
	34, 94	No Trip	May Trip	5.80 - 73.0	4.40 - 45.0	2.00 - 18.0	.280 - 3.60	.013 - 1.60	.010330	.009090	.009080
	36, 96	No Trip	May Trip	42.0 - 600	32.0 - 360	14.0 - 120	2.50 - 25.0	.020 - 11.0	.010 - 4.10	.009330	.009200

NOTES

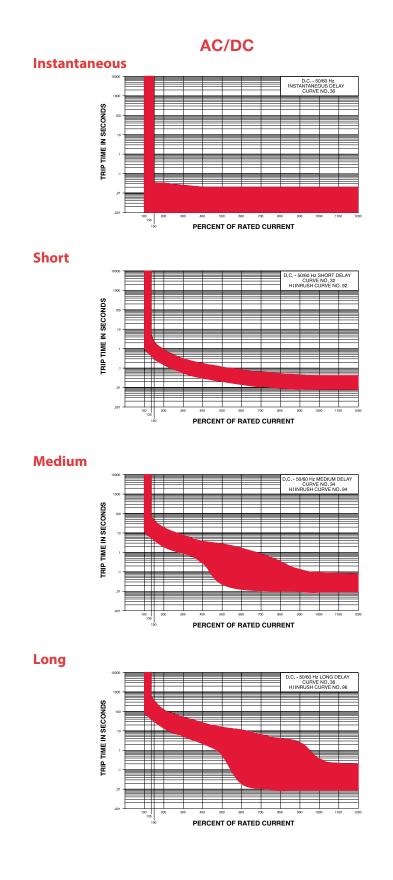
NOTES Delay Curves 10,20,30: Breakers to hold 100% and must trip at 150% of rated current and greater within the time limit shown in these curves. Delay Curves 12,14,16,22,24,26,62,64,66,72,74,76: Breakers to hold 100% and must trip at 125% of rated current and greater within the time limit shown in these curves. Delay Curves 32,34,36,92,94,96: Breakers to hold 100% and must trip at 135% of rated current and greater within the time limit shown in these curves. All curves: Data shown represents breaker response at ambient temperature of 77°F (25°C) with no preloading: Breakers are mounted in standard wall-mount position. The minimum inrush pulse tolerance handling capacity on the above standard delays is 16 times rated current &20 times rated current for high inrush delays based on a 60Hz 1/2 cycle, 8.33 ms pulse.



Email: sales@carlingtech.com Application Support: team2@carlingtech.com Phone: (860) 793–9281 Fax: (860) 793–9231 www.carlingtech.com

PERCENT OF RATED CURRENT

PERCENT OF RATED CURRENT



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