| 6766-19 SERIES

## 35 TO 150 AMP COMMERCIAL THERMAL CIRCUIT BREAKER

Introduction

The 6766-19 series is a manually switchable thermal circuit breaker that is designed to meet the harshest environmental requirements. The 6766-19 series breakers are weatherproof for protection against moisture, dust, grease, fuel vapors, and other harsh environments. The 6766-19 series of breakers is suited for rugged applications, where a robust switchable breaker is required for accessory, equipment and battery protection on heavy trucks, buses, construction equipment, off-road vehicles, marine, recreational vehicles (RVs) and electric (hybrid) vehicles.

Features

- 30VDC, 35 to 150 Amps
- Manual reset
- Weatherproof SAE J1625 and ideally suited for rugged applications
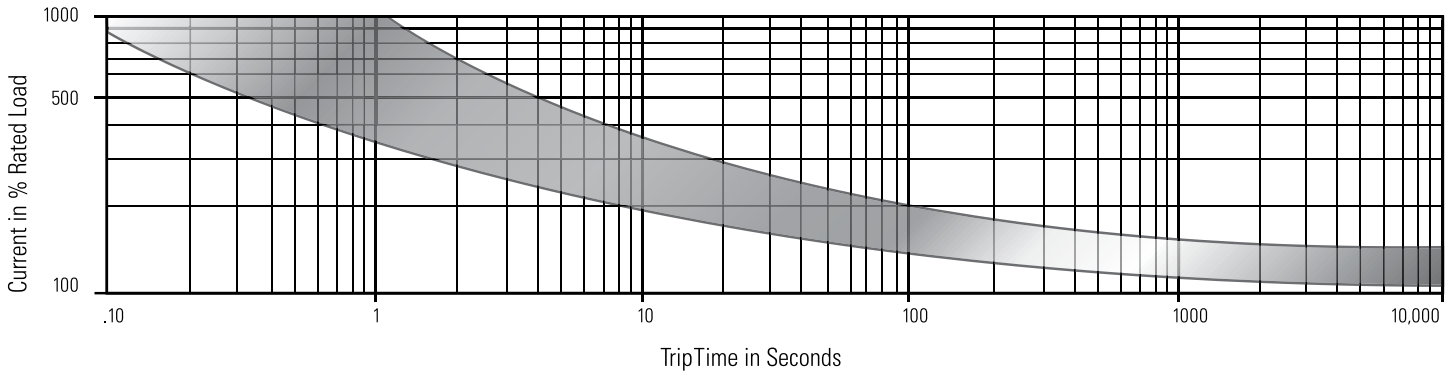- Ignition protected SAE J1171
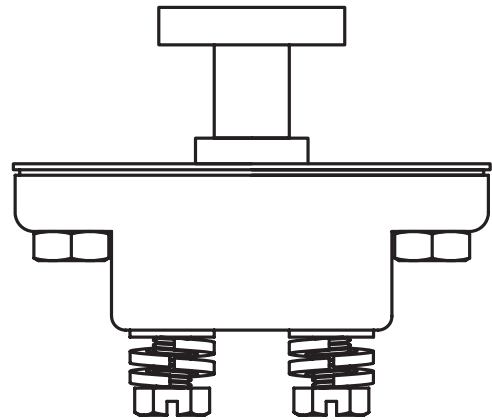
SPECIFICATIONS

Performance

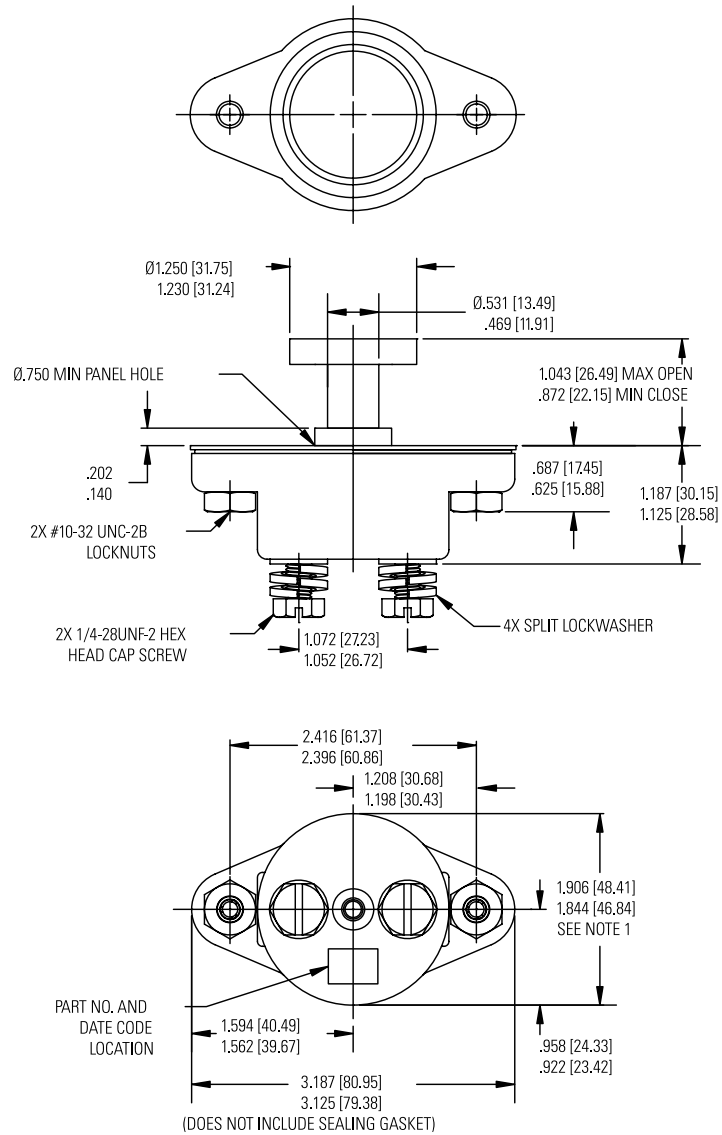|	
Calibration : 200% rated current, 77°F (25°C)	35 to 150 Amps : 8 to 100 seconds
Ultimate Trip At 77°F (25°C)	Must hold 100%, Must trip 135%
Endurance	Per SAE J1625
Interrupt Current Capacity	Per SAE J1625 and ABYC E-11
Vibration	Per SAE J1455, 4G's, 10-2K Hz
Dielectric Strength	MIL-STD-202 Method 301, 1500VAC min
Insulation Resistance	MIL-STD-202 Method 302, Condition B, 100 MΩ min
Weight (with mounting nuts)	6766-19 : 129 grams max

TRIP CURVE

Approximate Time, Current Characteristics At 77°F (25°C)

Current in % Rated Load

TripTime in Seconds

DIMENSIONS
All dimensions are in inches [mm]

Ø1.250 [31.75]
1.230 [31.24]

Ø.531 [13.49]
.469 [11.91]

Ø.750 MIN PANEL HOLE

1.043 [26.49] MAX OPEN
.872 [22.15] MIN CLOSE

.202
.140

.687 [17.45]
.625 [15.88]

1.187 [30.15]
1.125 [28.58]

2X #10-32 UNC-2B
LOCKNUTS

2X 1/4-28UNF-2 HEX
HEAD CAP SCREW

1.072 [27.23]
1.052 [26.72]

4X SPLIT LOCKWASHER

2.416 [61.37]
2.396 [60.86]

1.208 [30.68]
1.198 [30.43]

1.906 [48.41]
1.844 [46.84]
SEE NOTE 1

PART NO. AND
DATE CODE
LOCATION

1.594 [40.49]
1.562 [39.67]

.958 [24.33]
.922 [23.42]

3.187 [80.95]
3.125 [79.38]
(DOES NOT INCLUDE SEALING GASKET)

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DERATING CURVE

Performance characteristics are based on room temperature (77°F, 25°C). Consult Derating curve for ambient temperatures significantly higher or lower than standard room temperature.

Example: At 77°F (25°C) the device is calibrated to hold at 100% of rated current (1) and trip at 135% of rated current (2). At 140°F (60°C), the same device will hold at approximately 78% of rated current (3), and trip at approximately 115% of rated current (4).
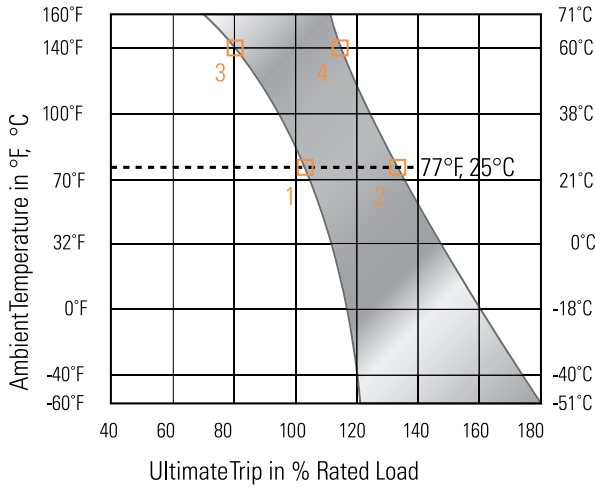
ORDERING OPTIONS

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            6766-19  —  X
Configuration
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6766-19: Manual, sealed

Amp Rating

35	60	105
40	70	120
45	80	135
50	90	150

Americas
+1 (508)-236-3287
klixon@sensata.com

AUTHORIZED DISTRIBUTORS
Flame Enterprises
Bob Correa, Director of Product Management
+1 (240) 236-9802
bcorrea@flamecorp.com
info@flamecorp.com | Web
Tel: 1-800-854-2255 or 1-818-700-2905
Fax: 1-818-407-5080

Peerless Electronics
Steve Gunther, National Sales Manager

CONTACT US

+1 (516) 594-3509
sgunther@peerlesselectronics.com
nysales@peerlesselectronics.com | Web
Tel: 1-800-285-2121
Fax: 1-800-222-8096

Europe, Middle East & Africa
Flame Enterprises
Bob Correa, Director of Product Management
+1 (240) 236-9802
bcorrea@flamecorp.com
info@flamecorp.com | Web
Tel: 1-800-854-2255 or 1-818-700-2905
Fax: 1-818-407-5080

Rev:10/05/18

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