# 30.5 mm Corrosion Resistant Watertight/Oiltight—E34

# **Technical Data and Specifications**

#### **Mechanical Ratings**

Description	Specification	
Frequency of Operation		
All pushbuttons	6000 operations/hr.	
Key and lever selector switches	3000 operations/hr.	
Auto-latch devices	1200 operations/hr.	
Life		
Pushbuttons	10 x 10 <sup>6</sup> operations	
Contact blocks	10 x 10 <sup>6</sup> operations	
PresTest units	10 x 10 <sup>6</sup> operations	
Lever and key selector switches	0.25 x 10 <sup>6</sup> operations	
Twist to release pushbuttons	0.3 x 10 <sup>6</sup> operations	
Shock Resistance		
Duration	210 ms ≥5g	

#### **General Specifications**

Description	Specification					
Climate Conditions						
Operating temperature	1° to 150°F (-17° to 66°C)					
Storage temperature	-40° to 176°F (−40° to 80°C)					
Altitude	6,562 ft (2,000m)					
Humidity	Max. 95% RH at 60°C					
Terminals						
Marking	NC-NO on the contact block to meet the NEMA requirements. Dual marking system 1–2 for normally closed, 3–4 for normally open to meet BS5472 (Cenelec EN50 005).					
Clamps	Terminals are saddle clamp type for 1 x 22 AWG (0.34 mm²) to 2 x 14 AWG (2.5 mm²) conductors					
Torque	7 lb-in (0.8 Nm)					
Degree of protection against direct electrical contact	IP2X with fingerproof shroud					
Light Units						
Transformers	Will withstand short-circuit for 1 hour per IEC 60947-5-1					
Bulbs—average life:						
Transformer type	20,000 hrs.					
Resistor/direct voltage type	2500 hrs. minimum at rated V					
LED	60,000 to 100,000 hrs.					

## **Electrical Ratings**

Description	Specification					
Insulation	U <sub>i</sub> = 660 Vac or Vdc					
Thermal	$I_{th} = 10A$					
Short Circuit Coordination to IEC/EN 609	47-5-1					
Rated conditional short circuit current	1 kA					
Fuse type	GE power controls TIA 10, red spot type gG, 10A, 660 Vac, 460 Vdc, BS88-2, IEC 60269-2-1					
UL rating	A600, P600					
AC load life duty cycle 1200 operations/hour						
10A	110V pf 0.4—1 x 10 <sup>6</sup> operations					
5A	250V pf 0.4—1 x 10 <sup>6</sup> operations					
2A	600V pf 0.4—1 x 10 <sup>6</sup> operations					
Switching capacity						
AC 15 rated make/break (11 x I <sub>e</sub> at 1.1 x U <sub>e</sub> )						
6A	120V pf 0.3					
4A	240V pf 0.3					
2A	660V pf 0.3					
DC13 rated make/break (1.1 x I <sub>e</sub> at 1.1 x U <sub>e</sub> )						
1.0A	125V L/R ≥0.95 at 300 ms					
0.55A	250V L/R ≥0.95 at 300 ms					
0.1A	660V L/R ≥0.95 at 300 ms					
10A	110V pure resistive					
Maximum ratings for logic level and hostile atmosphere application						
Maximum amperes	0.5A					
Maximum volts	120 Vac/Vdc					
Low voltage switching	Conical shaped points or "reliability nibs" improve performance in dry circuit, corrosive, fine dust and other contaminated atmospheres. Under normal environmental conditions, the minimum operational voltage is 5V and the minimum operational current is 1 mA, Vac/Vdc.					
Contact operation	Slow make and break. All normally closed contacts have positive opening operation, i.e., normally closed contacts are forced open in the event of contact weld or spring breakage.					

#### **Electrical Ratings—Contact Block**

## Meet or Exceed NEMA Rating Designations A600, A300 and B300 for AC and P600 for DC $\,$

	50 Vac or 60 H				Vdc		
Description	120	240	480	600	24/28	125	250
Meet or Exceed NEMA Rating Designations A600,	, A300 and B300 f	or AC and	P600 for DC	;			
Make and emerg. interrupting capacity (amp)	60	30	15	12	5.7	1.1	0.55
Normal load break (amp)	6	3	1.5	1.2	5.7	1.1	0.55
Thermal current (amp)	10	10	10	10	5.0	5.0	5.0
Voltamperes:							
Make and emerg. interrupting capacity	7200	7200	7200	7200	138	138	138
Normal load break	720	720	720	720	138	138	138