

389F Power Relays/One, Two or Three Pole 20-30 Amp Rating (DC and AC)



General Specifications - (UL 508)

| Contact Characteristics | | 389FHXX, XHX | 389FXAX, BXX, XBX | 389FCXX, XCX |
|--|--------------------------|--|--|--|
| Number and type of contacts | | SPST-NO-DM, SPDT-DM-DB | SPST, SPDT, DPST, DPDT | 3PST, 3PDT |
| Contact materials | | Silver Alloy | Silver Alloy | Silver Alloy |
| Thermal (carrying) current | | 30 A | 25 A | 20 A |
| Maximum switching voltage | | 600 V | 600 V | 300 V |
| Switching current @ voltage | Resistive | 30 A @ 300 VAC 50/60Hz 30 A @ 28 VDC | 25 A @ 300 VAC 50/60Hz 13 A @ 28 VDC | 20 A @ 150 VAC 50/60Hz 13 A @ 28 VDC |
| | Ballast | 25 A @ 277 VAC 50/60Hz | 20 A @ 277 VAC 50/60Hz | 20 A @ 150 VAC 50/60Hz 6.67 A @ 277 VAC 50/60Hz |
| | HP | 1.5 @ 200-300 V 50/60Hz 1 @ 120-199 V 50/60Hz | 1.5 @ 208-240 V 50/60Hz 1 @ 480-600 V 50/60Hz | 0.5 @ 208-240 V 50/60Hz 0.5 @ 120 V 50/60Hz |
| | Pilot Duty | A600 | B600 | B300 |
| Minimum switching requirement | | 100 mA @ 5 VDC or 0.5 W | 100 mA @ 5 VDC or 0.5 W | 100 mA @ 5 VDC or 0.5 W |
| Coil Characteristics | | | | |
| Voltage range | | 12 to 240 VAC 12 to 110 VDC | 12 to 240 VAC 12 to 110 VDC | 12 to 240 VAC 12 to 110 VDC |
| Operating range (% of nominal) | | 85% to 110% AC 80% to 110% DC | 85% to 110% AC 80% to 110% DC | 85% to 110% AC 80% to 110% DC |
| Average consumption | | 3.5 VA 1.44 W | 3.5 VA 1.44 W | 3.5 VA 1.44 W |
| Drop-out voltage threshold | | 10% AC/DC | 10% AC/DC | 10% AC/DC |
| Performance Characteristics | | | | |
| Electrical life (operations @ rated current) | | 100,000 operations | 100,000 operations | 100,000 operations |
| Mechanical life (unpowered) | | 5,000,000 operations | 5,000,000 operations | 5,000,000 operations |
| Operating time (response time) | | 20 ms | 20 ms | 20 ms |
| Dielectric strength | Between coil and contact | 2000 VAC | 2000 VAC | 2000 VAC |
| | Between poles | 2000 VAC | 2000 VAC | 2000 VAC |
| | Between contacts | 500 VAC | 500 VAC | 500 VAC |
| Environment | | | | |
| Product certifications | Standard version | UL, CE, CSA | UL, CE, CSA | UL, CE, CSA |
| Ambient air temperature around the device | Storage | -40 to 85 °C | -40 to 85 °C | -40 to 85 °C |
| | Operation | -40 to 55 °C | -40 to 55 °C | -40 to 55 °C |
| Weight | | 88 g | 88 g | 88 g |

Part Number Builder

| 389F | XBX | C1M | -120 | A |
|--|---|---|--------------|--------------------------------|
| Series | Configuration | Options** | Voltage | Current Type |
| 389F = Standard model equipped with flag indicator | XAX = SPDT BXX = DPST-NO XBX = DPDT CXX = 3PST-NO XCX = 3PDT HXX = SPST-NO-DM XHX = SPDT-DM-DB | B = Mounting base C = Plastic dust cover - socket mountable C1 = Side flange mount cover C3 = Top flange cover L = Indicator lamp across coil M = Manual operator button on case T = Printed circuit board terminals | Coil Voltage | A = AC D = DC |

Note - Not all iterations of option codes are available and some standard parts may use different nomenclature than outlined in part number builder.

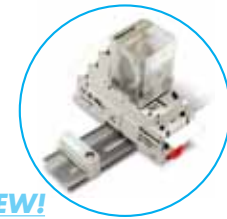
**Multiple codes may be used.



Side Flange Cover Option C1



Plain Cover Option C



389 Relay with the 70-788EL11-1 Socket

Standard Part Numbers

BOLD-FACED PART NUMBERS ARE NORMALLY STOCKED

| Nominal Input Voltage | Coil Resistance | Part Number | Contact Configuration |
|--|-----------------|---------------------|-----------------------|
| 25 Amp, AC Operated Flange Mount with Push Button | | | |
| 220/240 VAC, 50/60 Hz | 7200 Ω | 389FBXC1M-240A | DPDT |
| 110/120 VAC, 50/60 Hz | 1700 Ω | 389FBXC1M-120A | DPDT |
| 20 Amp, AC Operated Flange Mount with Push Button | | | |
| 220/240 VAC, 50/60 Hz | 4600 Ω | 389FCXC1M-240A | 3PDT |
| 110/120 VAC, 50/60 Hz | 1200 Ω | 389FCXC1M-120A | 3PDT |
| 25 Amp, DC Operated Flange Mount with Push Button | | | |
| 12 VDC | 100 Ω | 389FBXC1M-12D | DPDT |
| 24 VDC | 400 Ω | 389FBXC1M-24D | DPDT |
| 20 Amp, DC Operated Flange Mount with Push Button | | | |
| 12 VDC | 100 Ω | 389FCXC1M-12D | 3PDT |
| 24 VDC | 400 Ω | 389FCXC1M-24D | 3PDT |
| 30 Amp, AC Operated Flange Mount | | | |
| 110/120 VAC 50/60 Hz | 1100 Ω | 389FHXC1-120A | SPST-NO-DM |
| 220/240 VAC 50/60 Hz | 4300 Ω | 389FHXC1-240A | SPST-NO-DM |
| 24 VAC 50/60 Hz | 44 Ω | 389FHXC1-24A | SPDT-DM-DB |
| 110/120 VAC 50/60 Hz | 1100 Ω | 389FHXC1-120A | SPDT-DM-DB |
| 30 Amp, DC Operated Flange Mount | | | |
| 12 VDC | 100 Ω | 389FHXC1-12D | SPST-NO-DM |
| 24 VDC | 400 Ω | 389FHXC1-24D | SPST-NO-DM |
| 12 VDC | 100 Ω | 389FHXC1-12D | SPDT-DM-DB |
| 24 VDC | 400 Ω | 389FHXC1-24D | SPDT-DM-DB |
| 25 Amp, AC Operated Flange Mount | | | |
| 110/120 VAC 50/60 Hz | 1700 Ω | 389FXAXC1-120A | SPDT |
| 24 VAC 50/60 Hz | 72 Ω | 389FBXC1-24A | DPDT |
| 110/120 VAC 50/60 Hz | 1700 Ω | 389FBXC1-120A | DPDT |
| 220/240 VAC 50/60 Hz | 7200 Ω | 389FBXC1-240A | DPDT |
| 20 Amp, AC Operated Flange Mount | | | |
| 110/120 VAC 50/60 Hz | 1200 Ω | 389FCXC1-120A | 3PDT |
| 220/240 VAC 50/60 Hz | 4600 Ω | 389FCXC1-240A | 3PDT |
| 25 Amp, DC Operated Flange Mount | | | |
| 12 VDC | 100 Ω | 389FXAXC1-12D | SPDT |
| 24 VDC | 400 Ω | 389FXAXC1-24D | SPDT |
| 12 VDC | 100 Ω | 389FBXC1-12D | DPDT |
| 24 VDC | 400 Ω | 389FBXC1-24D | DPDT |
| 20 Amp, DC Operated Flange Mount | | | |
| 12 VDC | 100 Ω | 389FCXC1-12D | DPDT |
| 24 VDC | 400 Ω | 389FCXC1-24D | DPDT |
| 25 Amp, AC Operated Socket Compatible | | | |
| 220 / 240 VAC 50/60 Hz | 7200 Ω | 389FBXC-240A | DPDT |
| 110 / 120 VAC 50/60 Hz | 1700 Ω | 389FBXC-120A | DPDT |
| 24 VAC 50/60 Hz | 72 Ω | 389FBXC-24A | DPDT |
| 25 Amp, DC Operated Socket Compatible | | | |
| 110/125 VDC | 8000 Ω | 389FBXC-110/125D | DPDT |
| 24 VDC | 400 Ω | 389FBXC-24D | DPDT |
| 20 Amp, AC Operated Socket Compatible | | | |
| 220/240 VAC 50/60 Hz | 4600 Ω | 389FCXC-240A | DPDT |
| 110/120 VAC 50/60 Hz | 1200 Ω | 389FCXC-120A | DPDT |
| 24 VAC 50/60 Hz | 46 Ω | 389FCXC-24A | DPDT |
| 20 Amp, DC Operated Socket Compatible | | | |
| 110/125 VDC | 8000 Ω | 389FCXC-110/125D | DPDT |
| 24 VDC | 400 Ω | 389FCXC-24D | DPDT |

389F Power Relays/One, Two or Three Pole 20-30 Amp Rating (DC and AC) *continued*



WIRING DIAGRAMS BOTTOM VIEW

NEMA IEC



PLAIN/PUSH BUTTON COVER STYLE

Option C



TOP FLANGE COVER STYLE

Option C3



SIDE FLANGE COVER STYLE

Option C1



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