



BE3 SERIES MONITORING RELAYS

MODEL NUMBER	TYPE	INSTRUCTION MANUAL	PRODUCT BULLETIN
BE3-25	Sync-Check	9319100990	ULA
BE3-27	Under Voltage	9319200990	ULB
BE3-27T	Under Voltage with Time Delay	9319500990	ULC
BE3-27/59	Over/Under voltage	9319200990	ULB
BE3-27T/59T	Over/Under Voltage with Time Delay	9319500990	ULC
BE3-32	Reverse Power	9319800990	ULD
BE3-37	Under Current	9319900990	ULE
BE3-37/51	Under/Over Current	9319900990	ULE
BE3-47	Phase Sequence	9320200990	ULF
BE3-47N	Phase Balance	9320300990	ULG
BE3-47N/27	Phase Balance with Undervoltage	9320300990	ULG
BE3-49R (3 RTD)	Temperature Relay	9320500990	ULH
BE3-49R (6 RTD)	Temperature Relay	9320500991	ULI
BE3-49TH	Thermocouple Overtemperature	9320600990	ULJ
BE3-49TL	Thermocouple Undertemperature	9320600990	ULJ
BE3-51	Overcurrent	9319900990	ULE
BE3-59	Overvoltage	9319200990	ULB
BE3-59T	Overvoltage with Time Delay	9319500990	ULC
BE3-74SL	Millivolt Undervoltage	9320800990	ULN
BE3-74SH	Millivolt Overvoltage	9320800990	ULN
BE3-74SD	Millivolt Under/Overvoltage	9320800990	ULN
BE3-74TL	Milliamp Undercurrent	9321100990	ULO
BE3-74TH	Milliamp Overcurrent	9321100990	ULO
BE3-74TD	Milliamp Under/Overcurrent	9321100990	ULO
BE3-74VL	DC Undervoltage	9321400990	ULP
BE3-74VH	DC Overvoltage	9321400990	ULP
BE3-74VD	DC Under/Overvoltage	9321400990	ULP
BE3-76SH	DC Overcurrent w/Inverse Time Delay	9409900990	ULR
BE3-81O	Over Frequency	9321500990	ULL
BE3-81U	Under Frequency	9321500990	ULL
BE3-81O/U	Over/Under Frequency	9321500990	ULL
BE3-81OT	Over Frequency with Time Delay	9321800990	ULM
BE3-81UT	Under Frequency with Time Delay	9321800990	ULM
BE3-81OT/UT	Over/Under Frequency with Time Delay	9321800990	ULM

FEATURES

Basler Electric BE3 Series Monitoring Relays provide a wide range of functions demonstrating the following common features:

PHYSICAL SPECIFICATIONS

Operating temperature	0°C to 60°C (32°F to 140°F)
Functional temperature	-25°C to 70°C (-13°F to 158°F)
Storage temperature	-40°C to 70°C (-40°F to 158°F)
Temperature coefficient	0.03% per °C (300ppm/°C)
Relative humidity	95% non-condensing
Mounting	DIN rail 1.38" x 0.29" (35mm x 7.5mm) See page 4 for details.
Case	Complies with IEC 529, DIN 40050, BS 5490
Weight	Combined units: 1.32 lbs. (0.6 kg) Single unit: 0.88 lbs. (0.4 kg)
Size	See chart on page 3.
Case material	Complies with UL 94VO

INSULATION

Test voltage	4 kV RMS 50Hz 1 min. between Input/Case/Auxiliary
Impulse Test	EMC 5kV transient complying with IEC 801/EN55020
HF Interference	EHF 2.5kV 1MHz complying with IEC 255-4
Protection class	II complying with IEC 348

APPLIED STANDARDS

General	IEC144, BS5420, VDE/VDI0435, IEC947, EN60947
Safety	BS EN61010, DIN57411, VDE0411, ANSI C37
Surge withstand	IEC801/EN55020, ANSI C37-90a
Radio screening	RFI degree N complies with VDE0875

ELECTRICAL SPECIFICATIONS

cULus Listed*, CE Compliant
*Excludes BE3-76SH

OUTPUT

Relay Type	D.P.D.T. (typical)
AC Rating	250 V, 5 A, non-resistive, 1200 VA
DC Rating	125 V, 1 A, resistive, 120 Watts
Mechanical Life	5 million operations

INPUT

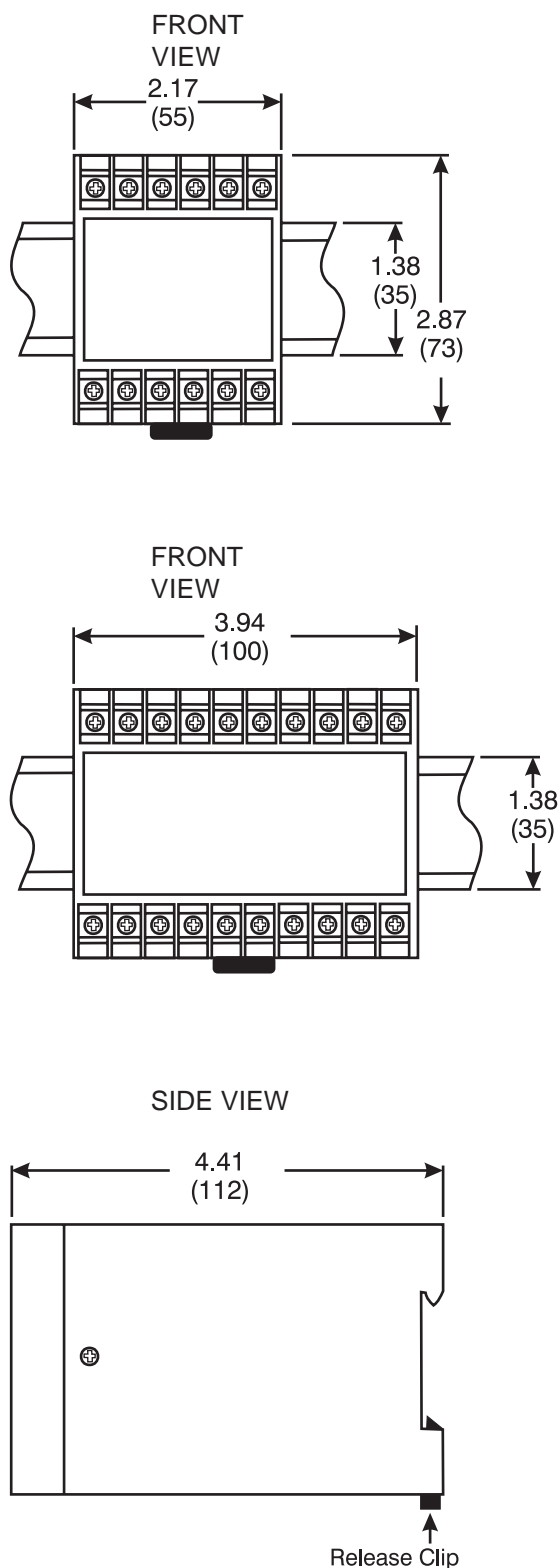
All units are self powered. Nominal voltage: 120 Vac, 240 Vac, 380 Vac, 480 Vac. For other nominal voltages, contact Basler Electric.
Nominal current 5 A

TYPICAL APPLICATIONS

APPLICATION	DEVICE NUMBER*													
	27	59	37	51	81U	81O	32	25	47	47N	74S	74T	49T	49R
Motor Devices	X	X	X	X	X				X	X	X	X	X	X
Generator Devices	X	X		X	X	X	X	X			X	X	X	X
Distribution Devices	X	X		X	X	X			X	X	X	X		
Transformer Devices	X	X		X					X	X	X	X	X	X
Process Control Devices			X								X	X	X	
Auto. Transfer Devices	X		X						X	X				

* ANSI/IEEE Device Numbers form an integral part of the Basler Electric Model Number.

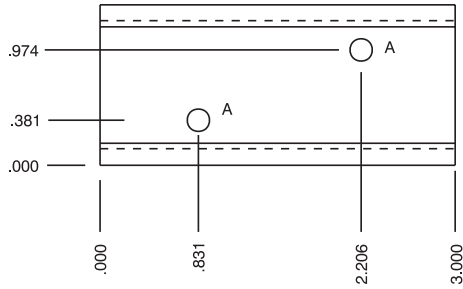
CASE DIMENSIONS



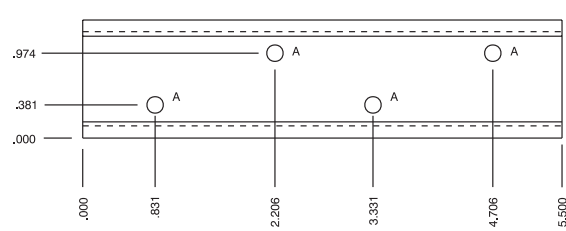
MODEL NUMBER	CASE SIZE IN MILLIMETERS	CASE SIZE IN INCHES
BE3-25	100	3.94
BE3-27	55	2.17
BE3-27T	55	2.17
BE3-59	55	2.17
BE3-59T	55	2.17
BE3-27/59	100	3.94
BE3-27T/59T	100	3.94
BE3-32	100	3.94
BE3-37 1PH	55	2.17
BE3-37 3PH	100	3.94
BE3-51 1PH	55	2.17
BE3-51 3PH	100	3.94
BE3-37/51 1PH	100	3.94
BE3-47	55	2.17
BE3-47N	55	2.17
BE3-47N/27	55	2.17
BE3-49R	100	3.94
BE3-49TH/TL	55	2.17
BE3-74SL	55	2.17
BE3-74SH	55	2.17
BE3-74SD	100	3.94
BE3-74TL	55	2.17
BE3-74TH	55	2.17
BE3-74TD	100	3.94
BE3-74VL	55	2.17
BE3-74VH	55	2.17
BE3-74VD	100	3.94
BE3-76SH	55	2.17
BE3-81U	55	2.17
BE3-81UT	55	2.17
BE3-81O	55	2.17
BE3-81OT	55	2.17
BE3-81O/U	100	3.94
BE3-81OT/UT	100	3.94

NOTE: Dimensions shown are in inches (millimeters).

MOUNTING ACCESSORIES



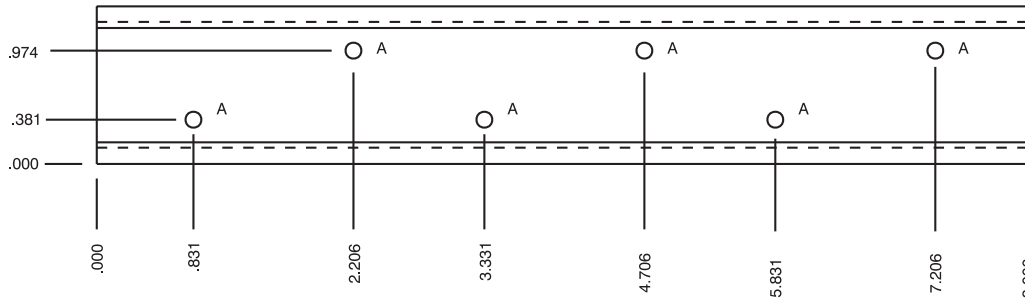
HOLES:
A. .188 DIA., 2 PLCS.



HOLES:
A. .188 DIA., 4 PLCS.

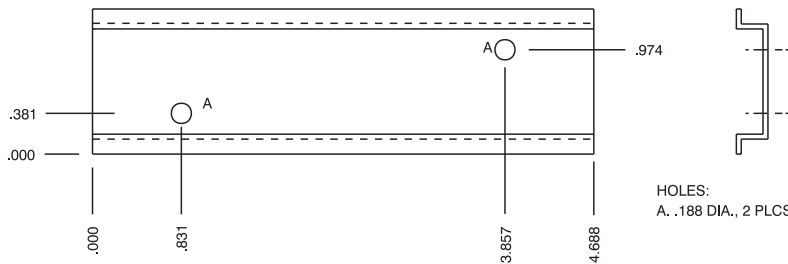
Mounting Rail, Basler P/N 932390001

Mounting Rail, Basler P/N 932390002



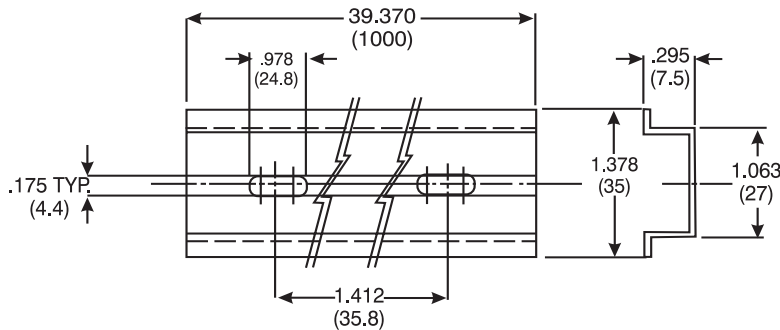
HOLES:
A. .188 DIA., 6 PLCS.

Mounting Rail, Basler P/N 932390003



HOLES:
A. .188 DIA., 2 PLCS.

Mounting Rail, Basler P/N 932390004



Standard DIN Rail, Basler P/N 17366



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