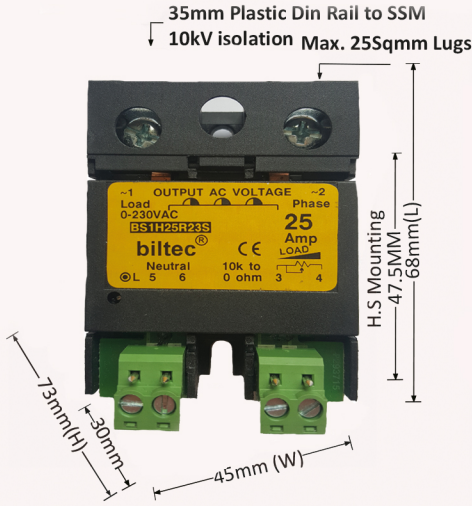




Vibrasyon Bobin Kontrol



General Specification	
Max Barrier Layer Temperature (T_{max})	< 125 °C
Ambient Temperature Range (T_{amb})	0-85 °C
SSM Storage Temperature Range (T_{st})	-40°C to 80°C
Output Terminal Screw Torque Range	T = 2.5 N.m (Max.)
Power Factor COS ϕ @Max. Load @480VAC	> 0.55
Housing Material	UL-94 V0 Grade
Base Plate	Aluminium , Copper (Nickel Plated)
SSM Weight	≤ 120 grams
Control Input Electrical Wire Size (Max.)	Up to 2.1 sq mm(14 AWG)
Power Output Electrical Wire Size (Max.)	Up to 33.6 sq mm(2 AWG)
Test Standards:	ROHS,IP20
Pending Approvals:	UL 508,VDE ,TUV ,CSA 22-2 IEC 60947-5-1:2016 IEC 62314:2006

HEAT SINK SELECTION GUIDE				
	HEATSINK RATING	25 AMP HALF SSM	25 AMP FULL SSM	50 AMP FULL SSM
G-68	26	05	20	25
B-48	36	-	-	40

* As per UL 508 2 AWG (33.6 Sq. mm) wire can draw 115 Amp at 40°C.

PHASE ANGLE CONTROL WITH HELP OF POT

10KE POT
SINGLE TURN



Output Technical Specifications @ 25°C Unless Specified

Parameters	Symbol	Unit	25 Amp	50 Amp	90 Amp
Operating Voltage Range	V_{AC}	V_{RMS}	230 VAC / 440 VAC		
Operating Frequency Range	f	Hz	47-63 Hz		
Peak Inverse Voltage	PIV	V_{PK}	800	1200	1200
Max. Surge Voltage With Stand Capacity (<1 Second)	V_{surge}	V_{RMS}	2700 V_{RMS} (3800 V_{PK})		
Rated Operational Current AC51a @ 20°C (Resistive Load)	I_T	Amp	25	50	90
Maximum Load Short Circuit Protection Current @ 55°C	I_{SC}	Amp	-	15	63
"B" Curve D.P. MCB Rating for Short Circuit Protection	-	Amp	-	16	63
NON Repetitive Surge Peak ON-State Current @ Rated V_{RRM} applied for 1/2 Cycle $t=10$ ms / $t=8.33$ ms (50 Hz/60 Hz)	I_{TSM} @ 50 Hz	A_p	260	800	1200
	I_{TSM} @ 60 Hz	A_p	273	840	1260
Max. I^2t for Fusing @ $t=10$ ms (50Hz)	I^2t	A^2s	340	3000	7200
Max. I^2t for Fusing @ $t=8.33$ ms (60Hz)	I^2t	A^2s	305	2750	6510
Max. Peak ON-state voltage Drop at Full Control	V_{TM}	V_{RMS}	≤ 1.2	≤ 1.2	≤ 1.2
Minimum Isolation Resistance between Input Terminals (3,4) to Output Terminals (~1,~2) @ 500 VDC	Ω	G Ω	50	50	50
Isolation Voltage Input & Output Terminal (3,4,~1,~2,5,6) to Body Isolation for 1 Minute	V_{iso}	kV	2.5	2.5	2.5
Max. Rate of Rise OFF-State Voltage	dV/dt	V/ μ S	400	600	1000
Max. Rate of Rise OFF-State Current	di/dt	A/ μ S	22	100	150
Max. Peak Repetitive Forward OFF-State Voltage	V_{DRM}	V	800	1200	1600
Max. Peak Repetitive Forward OFF-State current	I_{DRM}	mA	0.05	0.1	0.05
Max. Peak repetitive reverse off-state Voltage	V_{RRM}	V	800	1200	1600
Max. Peak repetitive reverse off-state current	I_{RRM}	mA	0.05	0.1	0.05
Max. DC Gate Trigger Voltage	V_{GT}	V	1.2	1.5	1.5
Max. DC Gate Trigger Current	I_{GT}	mA	50	8.8	20
Turn OFF Time	t_q	μ S	20	120	200
Maximum Latching Current	I_L	mA	100	160	200
Maximum Holding Current	I_H	mA	75	150	150
Thermal Resistance R_{θ} (Junction to case)	$R_{\theta(j-c)}$	°C/W	0.6	0.35	0.2
OFF State SSM Leakage Current @ Rated Voltage & Frequency (Snubber Leakage)	I_{leak}	mA	For 230 VAC < 1 mA For 440 VAC < 2 mA	For 230 VAC < 1.5 mA For 440 VAC < 3 mA	
SCCR Current Rating (less than 100 μ S)	I_{SCCR}	kA	-	10 kA	10 kA
Weight	W	gm	≤ 110	≤ 110	≤ 120

Digital Oscilloscope



SCR Parameter Tester



V_{TM} Tester



H.V. Insulation Break Down Tester



dv/dt Tester



I_{TSM} Tester

