

ENERCON

ENERGY CONTROL EQUIPMENT COMPANY

Distributed by:

PT. ENERCON EQUIPMENT COMPANY
GEDUNG ALDECO II - 4TH FLOOR
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POWERBOSS INTEGRA PRODUCT SPECIFICATIONS

Parameter	Description
Supply Voltage	220 – 460V and 525 - 575V +6% / -15%
Supply Frequency	47/63 Hz
Ambient Temperature	-10 - +40C, Reduce kW (HP) Rating 2% per Deg C up to 50 C
Storage Temperature	-40 - +60 C
Relative Humidity	<95% No condensation allowed
Application Sets	7 Application sets are provided as standard
Altitude	Maximum 1000 M. Reduce kW Rating by 1% per additional 100M
Starting Duty	2.5 X unit rating in amperes for 60 Sec, 3 X unit rating in amperes for 30 Sec, 4 X unit rating in amperes for 10 Sec, 5.5 X unit rating in amperes for 5 Sec.
Starts per Hour	12 evenly spaced starts per hour at the 'Starting Duty' ratings
Pedestal Voltage	25 – 80% of supply voltage 1% increments *
Starting Current Limit	25 – 80% of the DOL starting current in 1% increments *
Starting Current Time	0 – 255 in 1 Sec increments *
Starting Torque	6 – 64% of the DOL starting torque in 1% increments *
Kick Start Level	9 – 100% of the DOL starting torque in 1% increments *
Kick Start Time	0.1– 25 Sec in 0.1 Sec increments *
Ramp Up Time	0.5 – 255 Sec in 1 Sec increments *
Ramp Down Time	0.5 – 120 Sec in 1 Sec increments *
Step Down Voltage	100 - 30% Line voltage in 1% increments *
Fault Detection	Shut down for loss of phase and short-circuit Thyristor
Cooling	Naturally cooled <42 amps, force cooled >53 amps
LED Indications	Power on, Run, Ramp up, Ramp down, Fault and Optimising/Top of ramp
Relays	Run and Fault. Contact Rating 1.2KVA, 250V AC Max
Fan Voltage	110 or 220V as specified
Enclosure	IP20, NEMA 1
Safety Standards	UL, CSA, CE

*** SEPARATE PROGRAMMER REQUIRED TO ACCESS PARAMETERS OTHERWISE ONLY STANDARD APPLICATION SETS ARE AVAILABLE. SEE PAGES 33-36**

POWERBOSS INTEGRA SELECTION GUIDE 220 - 480V, 525 - 575V

Chassis Size HxWxD mm	220 - 480V	Model	Weight kg	Motor Rating Amps	Motor Kw (HP) @ 208-230V*	Motor Kw (HP) @ 380/460V*	Protection		Cooling
							IP20	NEMA 1	
H 270 W 130 D 115	SIZE 1	PBI 2.2	3.5	4	1.1 (1.5)	2.2 (3)	IP20	NEMA 1	Natural
		PBI 4	3.5	9	2.2 (3)	4 (5)			Natural
		PBI 5.5	3.5	11	3 (4)	5.5 (7.5)			Natural
		PBI 7.5	4	15	4 (5)	7.5 (10)			Natural
		PBI 11	4	23	5.5 (7.5)	11 (15)			Natural
		PBI 15	4	30	7.5 (10)	15 (20)			Natural
		PBI 22	4	42	11 (15)	22 (30)			Natural
H 385 W 130 D 215	SIZE 2	PBI 30	9.9	53	15 (20)	30 (40)	IP20	NEMA 1	Forced
		PBI 37	9.9	65	22 (30)	37 (50)			Forced
		PBI 55	9.9	97	30 (50)	55 (75)			Forced

Chassis Size HxWxD mm	525 - 575V	Model	Weight kg	Motor Rating Amps	Motor Kw (HP) @ 575V*	Protection		Cooling
						IP20	1 NEMA	
H 326 W 130 D 115	SIZE 1	PBI 7.5	5	4	11 (15)	IP20	1 NEMA	Natural
		PBI 11	5	9	15 (20)			Natural
		PBI 15	5	11	22 (30)			Natural
		PBI 22	5	15	30 (40)			Natural
H 385 W 130 D 215	SIZE 2	PBI 30	10.2	53	37 (50)	IP20	1 NEMA	Forced
		PBI 37	10.2	65	45 (60)			Forced
		PBI 55	10.2	97	75 (100)			Forced

* Units should be sized by motor current, the kW ratings are a guide only.