



Product Line	AESV3E/AESU3E	PB code	3C45R5
Efficiency class	IE3	Area classification	Safe

General data		
Output	5.5 KW	50HZ
	6.33 KW	60HZ
Speed	1455 rpm	50HZ
	1755 rpm	60HZ
Starting current (Is)	77 A	50HZ
	78 A	60HZ
Rated Torque (Tf)	36.1 Nm	50HZ
	34.4 Nm	60HZ
Starting Torque (Ts)	200 % Tn	50HZ
	205 % Tn	60HZ
Breakdown Torque (BDT)	300 % Tn	50HZ
	330 % Tn	60HZ
Frame size	132S	
Housing	Cast Iron	
Ambient temperature	-20°C to +40°C	
Altitude	1000 m.a.s.l	
Insulation Class	F	
Temperature rise	80 °C	
Duty cycle	S1	
Service factor	1.00	
Rotor Indertia (J)	0.132 kgm²	
Stall time	16.1 s	Cold 50HZ
	8.1 s	Hot 50HZ
Cooling	IC411	
Ingress Protection	IP55	
Painting	C3	
Color	RAL7032	
Noise sound pressure	58 dB(A)	No Load
Vibration level	Grade A	
Weight	74.5 KGs	
Mounting	B3, B35, B5, V1	

Features	
3 off winding thermistor 150°C	Included
Grounding terminal at housing	Included
Shaft Lip-seal	Included
Tropicalised winding	

Electrical data				
	100%	75%	50%	EFF.
Current (A)				
380V 5.5kW	10.9	-	- IE3	50HZ
400V 5.5kW	10.4	-	- IE3	50HZ
415V 5.5kW	10.0	-	- IE3	50HZ
690V 5.5kW	6.0	-	- IE3	50HZ
460V 6.33kW	10.4	-	- IE3	60HZ
Eff. (%)	89.6%	90.4%	90.3%	50HZ
	91.7%	92.1%	91.9%	60HZ
P.F (%)	85.5%	81.0%	70.5%	50HZ
	85.5%	81.0%	71.0%	60HZ

Inverter duty operation			
Constant Torque	25 to 50	HZ	400V/5.5kW
	30 to 60	HZ	460V/6.33KW
Variable Torque	5 to 50	HZ	400V/5.5KW
	6 to 60	HZ	460V/6.33KW

Bearing	
Type DE	6308ZZC3
Type NDE	6306ZZC3
Max. Radial load (Fr2)	2428 Nm E/2 50HZ
Max. Axial Load (Fa)	1960 Nm 50HZ
Bearing L10	50000 Hrs by coupling
	20000 Hrs by Fr2 + Fa
Lubricant interval	Hrs DE
	Hrs NDE
Grease valume	g DE
	g NDE
Lubricant	
Fixed bearing at Drive-End	

Note			
NEMA Premium 5.5KW-4P 460V 60HZ			
Rated current (A)	9.0	Full load P.F (%)	83.5%
Is / If (%)	865%	Rated T(Nm)	29.9
Ts / Tf (%)	290%	BDT /Tf (%)	330%

All data is subject to IEC 60034 Tolerance