



Customer information packet

KENM3454

.25HP, 1785RPM, 3PH, 60HZ, 56C, 3512M, GP, N

Class - None

Division - Not Applicable

Specifications

Enclosure	GP
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	.250 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	UR CSA
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	.800 A @ 460.0 V 1.600 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	70.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	0.8 a
Insulation Class	F

Part detail

Revision	D
Type	AC
Mech. spec.	35E010
Base	
Status	PRD/A
Elec. spec.	35WGG155
Layout	35LYE010
Eff. date	04-03-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	05-01-2023

Inverter Code	Inverter Duty
KVA Code	U
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3512M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.06 IN
Power Factor	42
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP2116L											
CAT.NO.	KENM3454										
SPEC.	35E010G155G4										
HP	.25										
VOLTS	230/460										
AMP	1.6/.8										
RPM	1785										
FRAME	56C				HZ		60		PH		3
SER.F.	1.15	CODE		U	DES		B	CL		F	
NEMA-NOM-EFF	70	PF		42							
RATING	40C AMB-CONT										
CC											
DE	6205		ODE		6203						
ENCL	TENV	SN									
	SFA 1.61/.81										

AC Induction Motor Performance Data

Record # 91140

Typical performance - not guaranteed values

Winding: 35WGG155-R061			Type: 3512M		Enclosure: TENV	
Nameplate Data				460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		.25		Full Load Torque		0.739 LB-FT
Volts		230/460		Start Configuration		direct on line
Full Load Amps		1.6/.8		Breakdown Torque		6.28 LB-FT
R.P.M.		1785		Pull-up Torque		3.26 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		4.04 LB-FT
NEMA Design Code		B	KVA Code	Starting Current		6.71 A
Service Factor (S.F.)		1.15		No-load Current		0.792 A
NEMA Nom. Eff.		70	Power Factor	Line-line Res. @ 25°C		43.2 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		46°C
S.F. Amps				Temp. Rise @ S.F. Load		48°C
				Locked-rotor Power Factor		70.7767
				Rotor inertia		0.0866 lb-ft²

Load Characteristics 460 V, 60 Hz, 0.25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	19	27	34	41	49	55	46
Efficiency	40.8	57	65.8	71.2	74.5	76.7	73.2
Speed	1795	1791	1787	1784	1779	1775	1781
Line amperes	0.782	0.78	0.787	0.796	0.813	0.843	0.806

ABB Motors and Mechanical Inc.

WINDING # 35WGG155

Typical performance - not guaranteed values.

0.25 HP 3 PH 60 HZ 1785 RPM 460 V 3512M

TORQUES (LB-FT): PO=6.28 PU=3.26 LR=4.04 LRA=6.71





