



Customer information packet

CEWDM3616T

7.5HP, 3450RPM, 3PH, 60HZ, 184TC, 3646M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184TC
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	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	18.500 A @ 208.0 V 8.400 A @ 460.0 V 16.800 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part detail

Revision	V
Type	AC
Mech. spec.	36F317
Base	
Status	PRD/A
Elec. spec.	36WGS428
Layout	36LYF317
Eff. date	09-19-2024
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	08-04-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	8.4 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3646M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	18.04 IN
Power Factor	93
Product Family	Wash Down
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3450 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

NP1669L									
CAT.NO.	CEWDM3616T								
SPEC.	36F317S428G1								
HP	7.5								
VOLTS	230/460								
AMP	16.8/8.4								
RPM	3450								
FRAME	184TC		HZ	60			PH	3	
SER.F.	1.15	CODE	L	DES	A	CLASS	F		
NEMA-NOM-EFF	89.5	PF	93						
RATING	40C AMB-CONT								
CC	010A								
DE	6206		ODE	6205					
ENCL	TEFC	SN							
BLANK									

AC Induction Motor Performance Data

Record # 52145

Typical performance - not guaranteed values

Winding: 36WGS428-R020			Type: 3646M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		7.5	Full Load Torque		11.4 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		16.8/8.4	Breakdown Torque		57.9 LB-FT		
R.P.M.		3450	Pull-up Torque		39.9 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		48.2 LB-FT	
NEMA Design Code		A	KVA Code	L	Starting Current		91 A
Service Factor (S.F.)		1.15		No-load Current		2.33 A	
NEMA Nom. Eff.		89.5	Power Factor	93	Line-line Res. @ 25°C		1.43 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		74°C	
S.F. Amps				Temp. Rise @ S.F. Load		92°C	
				Locked-rotor Power Factor		44.4	
				Rotor inertia		0.205 LB-FT2	

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	64	85	90	93	94	94	94
Efficiency	86.9	90.6	91	90.1	88.8	86.5	89.3
Speed	3571	3539	3505	3468	3429	3385	3445
Line amperes	3.14	4.59	6.43	8.43	10.5	12.9	9.67

ABB Motors and Mechanical Inc.

WINDING # 36WGS428

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 3450 RPM 460 V 3646M

TORQUES (LB-FT): PO=57.9 PU=39.9 LR=48.2 LRA=91





