



Customer information packet

CWDL3509

1HP, 3450RPM, 1PH, 60HZ, 56C, 3520L, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	1.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	UR CSA
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	11.800 A @ 115.0 V 5.900 A @ 230.0 V 6.100 A @ 208.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	68.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part detail

Revision	AQ
Type	AC
Mech. spec.	35T985
Base	
Status	PRD/A
Elec. spec.	35WGX964
Layout	35LYT985
Eff. date	07-31-2024
CD Diagram	CD0001
Poles	02
Leads	4#16 A PH,2#18 B PH
Proprietary	False
Created date	06-22-2007

High Voltage Full Load Amps	5.9 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	4 @ 16 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.23 IN
Power Factor	82
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
Shaft Diameter	0.625 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
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Nameplate

NP1496L											
CAT.NO.	CWDL3509										
SPEC.	35T985X964G1										
HP	1										
VOLTS	115/230										
AMP	11.8/5.9										
RPM	3450										
FRAME	56C		HZ	60			PH	1			
SER.F.	1.25	CODE	K	DES	N		CLASS	F			
NEMA-NOM-EFF	68	PF	82								
RATING	40C AMB-CONT										
CC											
DE	6205		ODE	6203							
ENCL	TEFC	SN									
	SFA 14/7										

AC Induction Motor Performance Data

Record # 20606

Typical performance - not guaranteed values

Winding: 35WGX964-R004			Type: 3520L		Enclosure: TEFC			
Nameplate Data			230 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		1	Full Load Torque		1.5 LB-FT			
Volts		115/230	Start Configuration		direct on line			
Full Load Amps		11.8/5.9	Breakdown Torque		4.25 LB-FT			
R.P.M.		3450	Pull-up Torque		3.5 LB-FT			
Hz	60	Phase	1	Locked-rotor Torque		4.75 LB-FT		
NEMA Design Code		N	KVA Code	K	Starting Current		38 A	
Service Factor (S.F.)		1.25	No-load Current		3.2 A			
NEMA Nom. Eff.		68	Power Factor		82	Line-line Res. @ 25°C		2 Ω A Ph 1.77 Ω B Ph
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		72°C	
S.F. Amps		14/7	Temp. Rise @ S.F. Load		90°C			

Load Characteristics 230 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	47	64	72	80	84	86	84
Efficiency	50	61	67	68	67	64.5	67
Speed	3560	3525	3485	3450	3400	3340	3400
Line amperes	3.5	4.2	5	5.9	7	8.4	7

ABB Motors and Mechanical Inc.

WINDING # 35WGX964

Typical performance - not guaranteed values.

1 HP 1 PH 60 HZ 3450 RPM 230 V 3520L

TORQUES (LB-FT): PO=4.25 PU=3.5 LR=4.75 LRA=38





