



Product Information Packet

WDM3538

.5HP,1770RPM,3PH,60HZ,56,3512M,TENV,F1,N

Part Detail							
Revision:	B	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGG155	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	35S578	Layout:	35LYS578	Poles:	04	Created Date:	01-10-2022
Base:	RG	Eff. Date:	07-14-2022	Leads:	9#18		

Specs			
Catalog Number:	WDM3538	Heater Indicator:	No Heater
Enclosure:	TENV	Insulation Class:	F
Frame:	56	Inverter Code:	Not Inverter
Frame Material:	Steel	KVA Code:	M
Motor Letter Type:	Three Phase	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	.500 HP @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 18 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3512M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	69
	UR	Product Family:	Wash Down
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Sealed Bearing
Auxillary Box Lead Termination:	None	Pulley Face Code:	Standard
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End

Current @ Voltage:	1.600 A @ 230.0 V	Shaft Ground Indicator:	No Shaft Grounding
	1.800 A @ 208.0 V	Shaft Rotation:	Reversible
	.800 A @ 460.0 V	Shaft Slinger Indicator:	Shaft Slinger
Design Code:	B	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP1496L

CAT.NO.	WDM3538													
SPEC.	35S578G155G1													
HP	.5													
VOLTS	230/460													
AMP	1.8/.9													
RPM	1770													
FRAME	56						HZ 60				PH 3			
SER.F.	1.25					CODE	M	DES B			CLASS F			
NEMA-NOM-EFF	80						PF	65						
RATING	40C AMB-CONT													
CC					USABLE AT 208V 1.8									
DE	6205							ODE	6203					
ENCL	TENV						SN							
	SFA 2/1													

AC Induction Motor Performance Data

Record # 82213

Typical performance - not guaranteed values

Winding: 35WGG155-R007			Type: 3512M		Enclosure: TENV		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.5	Full Load Torque		1.49 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		1.8/.9	Breakdown Torque		6.28 LB-FT		
R.P.M.		1770	Pull-up Torque		3.26 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		4.04 LB-FT	
NEMA Design Code		B	KVA Code	M	Starting Current		6.71 A
Service Factor (S.F.)		1.25	No-load Current		0.792 A		
NEMA Nom. Eff.		80	Power Factor	65	Line-line Res. @ 25°C		43.2 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		29°C
S.F. Amps		2/1	Temp. Rise @ S.F. Load		35°C		
			Locked-rotor Power Factor		70.8		
			Rotor inertia		0.0866 lb-ft²		

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	41	52	62	69	75	57
Efficiency	56.5	70.7	76.5	78.9	80	80	77.6
Speed	1792	1786	1779	1771	1763	1755	1774
Line amperes	0.795	0.827	0.889	0.966	1.06	1.18	0.878

Performance Graph at 460V, 60Hz, 0.5HP Typical performance - Not guaranteed values





