

BALDOR® • RELIANCE

Product Information Packet

FDL3510TM

1HP,1725RPM,1PH,60HZ,143T,3524L,TEFC,F1

Part Detail							
Revision:	J	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGS245	CD Diagram:	CD0269	Mfg Plant:	
Mech. Spec:	35E2360	Layout:	35LYE2360	Poles:	04	Created Date:	12-18-2013
Base:	RG	Eff. Date:	03-21-2017	Leads:	4#16 A&J,2#18 B PH,1#14 #4TH		

Specs			
Catalog Number:	FDL3510TM	Inverter Code:	Not Inverter
Enclosure:	TEFC	KVA Code:	K
Frame:	143T	Lifting Lugs:	No Lifting Lugs
Frame Material:	Steel	Locked Bearing Indicator:	No Locked Bearing
Output @ Frequency:	1.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	4 @ 16 AWG, A&J
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
	115.0 V @ 60 HZ	Motor Type:	3524L
XP Class and Group:	None	Mounting Arrangement:	F1
XP Division:	Not Applicable	Power Factor:	73
Agency Approvals:	CSA	Product Family:	General Purpose
	UR	Product Type:	FARM DUTY
Auxiliary Box:	No Auxiliary Box	Pulley End Bearing Type:	Sealed Bearing
Auxiliary 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:	13.000 A @ 115.0 V	Shaft Ground Indicator:	No Shaft Grounding

	6.500 A @ 230.0 V	Shaft Rotation:	Reversible
	6.800 A @ 208.0 V	Shaft Slinger Indicator:	Shaft Slinger
Design Code:	L	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:	Manual Thermal Overload
Heater Indicator:	No Heater	Winding Thermal 1 Location:	KO
Insulation Class:	F	Winding Thermal 2:	None

Nameplate NP1280L

CAT.NO.	FDL3510TM										
SPEC.	35E2360S245G1										
HP	1										
VOLTS	115/230										
AMP	13/6.5										
RPM	1725										
FRAME	143T			HZ	60			PH	1		
SER.F.	1.15			CODE	K		DES	L	CL	F	
NEMA-NOM-EFF	67			PF	73						
RATING	40C AMB-CONT										
CC							USABLE AT 208V	6.8			
DE	6205			ODE	6203						
ENCL	TEFC			SN							

AC Induction Motor Performance Data

Record # 61934 - Typical performance - not guaranteed values

Winding: 35WGS245-R004	Type: 3524L	Enclosure: TEFC
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Nameplate Data				115 V, 60 Hz: Low Voltage Connection	
Rated Output (HP)	1			Full Load Torque	3 LB-FT
Volts	115/230			Start Configuration	direct on line
Full Load Amps	13/6.5			Breakdown Torque	6.6 LB-FT
R.P.M.	1725			Pull-up Torque	5.3 LB-FT
Hz	60	Phase	1	Locked-rotor Torque	9.3 LB-FT
NEMA Design Code	L	KVA Code	K	Starting Current	74 A
Service Factor (S.F.)	1.15			No-load Current	9.2 A
NEMA Nom. Eff.	67	Power Factor	73	Line-line Res. @ 25°C	0.693 Ω A Ph 1.77 Ω B Ph
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	75°C
S.F. Amps				Temp. Rise @ S.F. Load	87°C
				Locked-rotor Power Factor	92.3
				Rotor inertia	0.142 LB-FT ²

Load Characteristics 115 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	51	64	72	77	81	75
Efficiency	51.1	63	66.8	66.6	63.9	58.9	65
Speed	1781	1766	1749	1725	1697	1658	1708
Line amperes	9.4	10.2	11.4	13.4	16	19.4	15

Performance Graph at 115V, 60Hz, 1.0HP Typical performance - Not guaranteed values





