

BALDOR® • RELIANCE 

Product Information Packet

IR3507M

.75HP, 1725RPM, 1PH, 60HZ, 56, 3524L, TEFC, F1

Part Detail							
Revision:	N	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGT918	CD Diagram:	CD0831A02	Mfg Plant:	
Mech. Spec:	35K634	Layout:	35LYK634	Poles:	04	Created Date:	02-17-2010
Base:	RG	Eff. Date:	03-22-2018	Leads:	6#18,1#16 #4TH		

Specs			
Catalog Number:	IR3507M	Insulation Class:	F
Enclosure:	TEFC	Inverter Code:	Not Inverter
Frame:	56	KVA Code:	K
Frame Material:	Steel	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	.750 HP @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	6 @ 18 AWG
Voltage @ Frequency:	115.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	208.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
	230.0 V @ 60 HZ	Motor Type:	3524L
XP Class and Group:	None	Mounting Arrangement:	F1
XP Division:	Not Applicable	Power Factor:	76
Agency Approvals:	UR	Product Family:	General Purpose
	CSA	Product Type:	FARM DUTY
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
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:	4.600 A @ 230.0 V	Shaft Ground Indicator:	No Shaft Grounding
	4.800 A @ 208.0 V	Shaft Rotation:	Reversible
	9.200 A @ 115.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	N	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
		Winding Thermal 2:	None

Nameplate NP1280L										
CAT.NO.	IR3507M									
SPEC.	35K634T918G1									
HP	.75									
VOLTS	115/208-230									
AMP	9.2/4.8-4.6									
RPM	1725									
FRAME	56			HZ	60			PH	1	
SER.F.	1.00			CODE	K		DES	N	CL	F
NEMA-NOM-EFF	70			PF	76					
RATING	40C AMB-CONT									
CC							USABLE AT 208V			
DE	6205			ODE	6203					
ENCL	TEFC			SN						

Parts List		
Part Number	Description	Quantity
SA191045	SA 35K634T918G1	1.000 EA
RA178709	RA 35K634T918G1	1.000 EA
TPMRJ28RB	THERMAL 1PH 0.75 MAN 120C	1.000 EA
EC1645A06SP	ELEC CAP, 645-774 MFD, 125V, 2.06D X 4.	1.000 EA
ES5204	115/40A,L ,IR ,130CO,1.8D*3.4 ,4-7-51	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3007A59	35 CB .88 DIA @ 6:00, .75 MTO W/BOOT @ 3	1.000 EA
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 EA
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
51XT0632A06	6-32X3/8 TY23 HXWS SLDSR	2.000 EA
HA6001A01	THERMAL RETAINER (PLATED)	1.000 EA
51XB1214A10	12-14 X 5/8HX WS SL SR TYBX	2.000 EA
RM1014A01SP	BUTYL RUB.THRM COV. (MENA)	1.000 EA
35EP3122K02	K00 W/INST REV SW	1.000 EA
NS2501A02	INSULATOR, CAPACITOR BOX	1.000 EA
35CB3801	CAPACITOR COVER, CAST	1.000 EA
34GS3002	GASKET, CAPACITOR BOX	1.000 EA
HA7010	CAPACITOR RETENTION CLAMP	1.000 EA
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3123A00	MASTER DE,205 BRG,.998SH,#26 DRN	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	2.000 EA

Parts List (continued)		
Part Number	Description	Quantity
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
35FH4005A32SP	IEC FH NO GRSR W/3 HOLES - PRIMED	1.000 EA
35CB4521GX	CONDUIT BOX LID KIT **ORDER INDIV PARTS	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	6.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LB1087	LABEL,MANUAL RESET (ROLL LABEL)	1.000 EA
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	4.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 EA
HA3100A18	THRUBOLT 10-32 X 9.250	4.000 EA
MG1025C02	WILKOFASST SG, 787.105, TAN	0.017 GA
LB1119N	WARNING LABEL	1.000 EA
NP1280L	ALUM FARM DUTY UL CSA CC THERMAL	1.000 EA
35PA1066	PKG GRP, PRINT PK1008A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 EA
PE-0000001	ZRTG PE ASSEMBLY	1.000 EA

Accessories		
Part Number	Description	Multiplier
35-8762	C FACE KIT	A8
35EP1506A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 61270 - Typical performance - not guaranteed values

Winding: 35WGT918-R004	Type: 3524L	Enclosure: TEFC
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Nameplate Data				115 V, 60 Hz: Low Voltage Connection	
Rated Output (HP)	.75			Full Load Torque	2.3 LB-FT
Volts	115/208-230			Start Configuration	direct on line
Full Load Amps	9.2/4.8-4.6			Breakdown Torque	5.3 LB-FT
R.P.M.	1725			Pull-up Torque	5 LB-FT
Hz	60	Phase	1	Locked-rotor Torque	7.7 LB-FT
NEMA Design Code	N	KVA Code	K	Starting Current	54 A
Service Factor (S.F.)	1			No-load Current	5.4 A
NEMA Nom. Eff.	70	Power Factor	76	Line-line Res. @ 25°C	0.905 Ω A Ph 1.82 Ω B Ph
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	

Load Characteristics 115 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	42	58	72	78	83	84
Efficiency	54	67.7	72.9	74.2	73.8	71.8
Speed	1785	1773	1759	1744	1725	1703
Line amperes	5.6	6.4	7.2	8.6	10	12

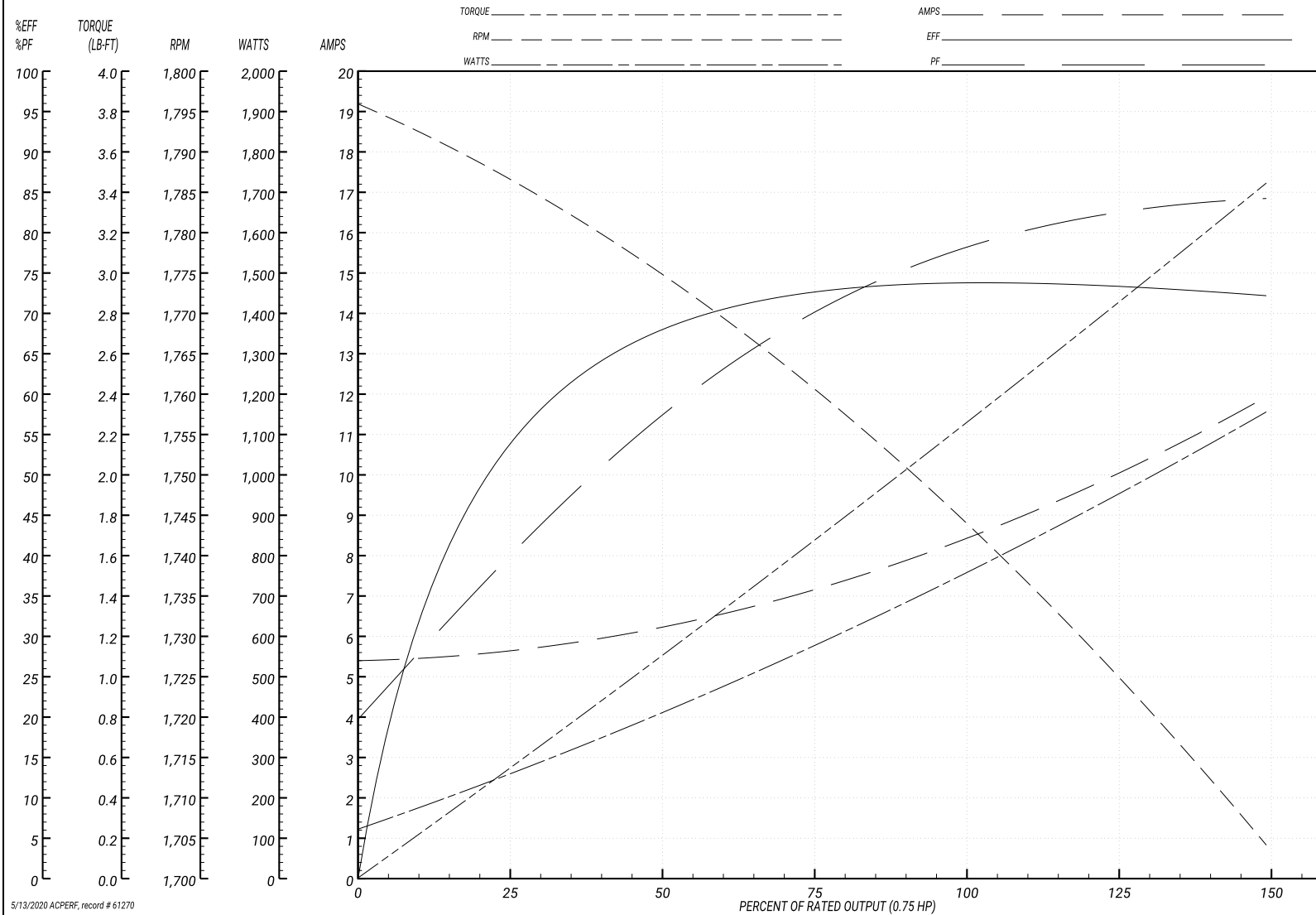
Performance Graph at 115V, 60Hz, 0.75HP Typical performance - Not guaranteed values

ABB Motors and Mechanical Inc.

WINDING # 35WGT918

Typical performance - not guaranteed values.

0.75 HP 1 PH 60 HZ 1725 RPM 115 V 3524L
 TORQUES(LB-FT): PO=5.3 PU=5 LR=7.7 LRA=54



5/13/2020 ACPERF, record # 61270

