

ABB BALDOR RELIANCE III

Customer information packet

FDL1177T

16HP, 1740RPM, 1PH, 60HZ, 256T, 0956LC, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	256T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	16.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 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	61.000 A @ 230.0 V 69.000 A @ 208.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	61.0 a

Part Detail

Revision	P
Type	AC
Mech. spec.	09M634
Base	
Status	PRD/A
Elec. spec.	09WGT428
Layout	09LYM634
Eff. date	12-09-2025
CD Diagram	CD1084
Poles	04
Leads	2#6 A PH 15" LONG,2#12 B PH 15" LONG Y
Proprietary	False
Created date	04-04-2017

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	C
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Cap Box
Motor Lead Quantity/Wire Size	2 @ 6 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0956LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.28 IN
Power Factor	96
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1740 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1279L									
CAT.NO.	FDL1177T								
SPEC.	09M634T428G1								
HP	16								
VOLTS	208-230								
AMP	69-61								
RPM	1740								
FRAME	256T	HZ		60		PH		1	
SER.F.	1.00	CODE		C	DES		L	CL	F
NEMA-NOM-EFF	87.5	PF		96					
RATING	40C AMB-CONT								
CC									
DE	6309	ODE		6307					
ENCL	TEFC	SN							

Parts List

Part number	Description	Quantity
SA336806	SA 09M634T428G1	1.000 ea
RA325062	RA 09M634T428G1	1.000 ea
OC3050F09SP	CAPACITOR 50 MFD 370 VAC	2.000 ea
RE0045A12	CONTACTOR, 40 AMP, 2 POLE, 208-240 VAC	1.000 ea
EC1216D06	ELEC CAP, 216-259MFD, 330V, 2.06D X 4.38	4.000 ea
10FN2001A14	EXTERNAL FAN MACH 1.375 BORE (CAST ALUM)	1.000 ea
09CB3801A01	SPL CAPACITOR BOX ADAPTER	1.000 ea
09GS1003	ADAPTER GASKET MODEL 309 MOTORS	1.000 ea
10XN2520K16	1/4-20 X 1" HX HD SCRW GRADE 5, ZINC P	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
37GS3015	GASKET, CAPAC BOX	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
HA6003A45	CAPAC CLAMP - CLIP (WHITE ZINC PLATED)	2.000 ea
HA6003A47	CAPAC CLAMP	1.000 ea
HA7419	SPL BRACKET FOR MTG. CONTACT TO SINGLE P	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 ea
WD1000D90	T&B RC2577FM,90 DEG INSUL. FLAG TERMINAL	2.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	7.000 ea
WD1000A03	41531 AMP FLG.TERM,4M/REEL(2.5MIL)	30.000 ea
WD1000D90	T&B RC2577FM,90 DEG INSUL. FLAG TERMINAL	1.000 ea
SP5165	MODEL 39 DOUBLE ARM STATIONARY SWITCH	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
NS2605	SWITCH INSULATOR 09 FRAME	1.000 ea
09EP1100A233	ENDPLATE, MACH W/SWITCH MTG, SLINGER REC	1.000 ea
HA3400A33	STUD- 3/8-16 X 4.96 HEX	4.000 ea
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 ea

10XN2520K36	1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P	4.000 ea
09EP1101A144	PU ENDPLATE, MACH W/NO GREASER HOLES	1.000 ea
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 ea
HW4600B44	V-RING SLINGER 1.500 X 1.810 X .28 VITON	1.000 ea
HW4600A51	SEAL 1.688 X 2.686 X 0.313 SINGLE LIP-CR	1.000 ea
XY3816A12	3/8-16 FINISHED NUT W/SERRATIONS	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
HW4600C51	31X39X7.5MM FACE SEAL FOR 1.375 DIA. SH	1.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
09FH4000SP	309 FH - BLACK PRIMER	1.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
37CB4509	CAPAC BOX LID, STAMPED	1.000 ea
37GS3016	GASKET, CAPAC BOX LID	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	6.000 ea
HW2501G25	KEY, 3/8 SQ X 2.875	1.000 ea
37CB5012A01	CAPACITOR BOX KIT, 37CB3804A43	1.000 ea
HA4066A01	PUSH IN T-DRAIN FITTING (BLACK)	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.070 lb
HA4066A01	PUSH IN T-DRAIN FITTING (BLACK)	1.000 ea
80XN3816L08	3/8-16 X 1/2 SET SCREW W/NYLON PATCH	1.000 ea
MG1025C02	WILKOFASST SG, 787.105, TAN	0.050 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0017	CONN LABEL-1 PHASE-SINGLE VOLT-REV ROTNO	1.000 ea
NP1279L	ALUM FARM DUTY UL CSA CC	1.000 ea
40PA1005	PACKAGING GROUP, 09 STD	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
PE-0000003	ZRTG PE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 63464

Typical performance - not guaranteed values

Winding: 09WGT428-R001				Type: 0956LC		Enclosure: TEFC	
Nameplate Data				230 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		16		Full Load Torque		48.4 LB-FT	
Volts		208-230		Start Configuration		direct on line	
Full Load Amps		61		Breakdown Torque		147 LB-FT	
R.P.M.		1740		Pull-up Torque		75.4 LB-FT	
Hz		60 Phase		Locked-rotor Torque		99.7 LB-FT	
NEMA Design Code		L KVA Code		Starting Current		250 A	
Service Factor (S.F.)		1		No-load Current		9.37 A	
NEMA Nom. Eff.		0 Power Factor		Line-line Res. @ 25°C		0.098033 Ω A Ph 0.32402 Ω B Ph	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		83°C	

Load Characteristics 230 V, 60 Hz, 16 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	89	95	96	96	96	95
Efficiency	78.6	87.1	88.6	88	85.9	82.4
Speed	1787.1	1773.2	1757.9	1741.3	1721.2	1693.9
Line amperes	18.8	31.5	45.6	61.4	78.5	100

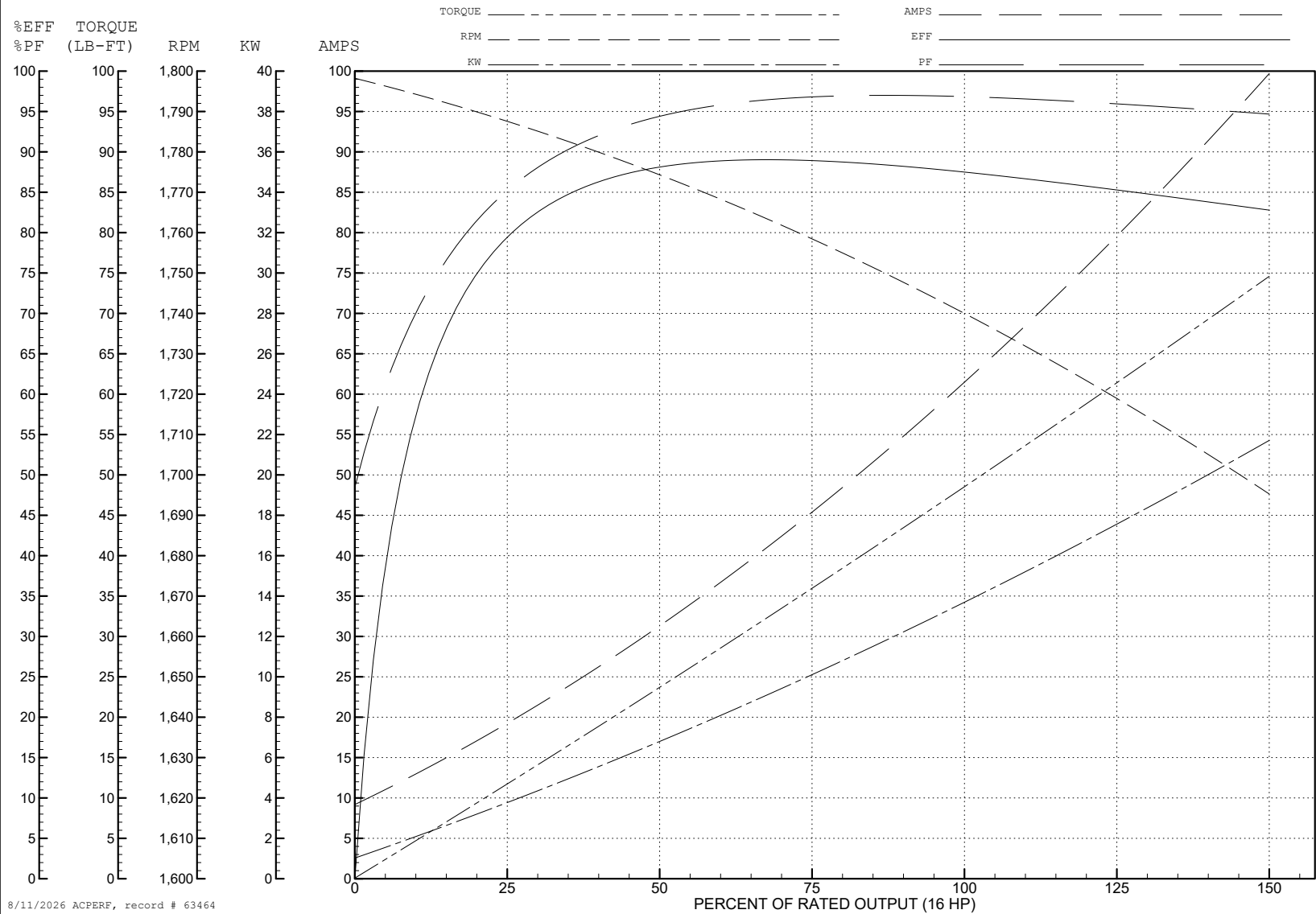
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WINDING # 09WGT428

Typical performance - not guaranteed values.

16 HP 1 PH 60 HZ 1740 RPM 230 V 0956LC

TORQUES (LB-FT): PO=147 PU=75.4 LR=99.7 LRA=250



AC Induction Motor Performance Data

Record # 63558

Typical performance - not guaranteed values

Winding: 09WGT428-R001				Type: 0956LC		Enclosure: TEFC	
Nameplate Data				208 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		16		Full Load Torque		49.09 LB-FT	
Volts		208-230		Start Configuration		direct on line	
Full Load Amps		69-61		Breakdown Torque		144 LB-FT	
R.P.M.		1725		Pull-up Torque		73.7 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		98.2 LB-FT	
NEMA Design Code		L	KVA Code	C	Starting Current		350 A
Service Factor (S.F.)		1		No-load Current		29.1 A	
NEMA Nom. Eff.		0	Power Factor	0	Line-line Res. @ 25°C		0.098033 Ω A Ph 0.32402 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		104°C	

Load Characteristics 208 V, 60 Hz, 16 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	97	98	98	97	95	92
Efficiency	82.7	88.6	88.5	85.6	80.8	71.7
Speed	1782.8	1765.1	1742.2	1713.4	1675.4	1608.7
Line amperes	18	32.4	49.9	69.2	92.2	129

ABB Motors and Mechanical Inc.

WINDING # 09WGT428

Typical performance - not guaranteed values.

16 HP 1 PH 60 HZ 1725 RPM 208 V 0956LC

TORQUES (LB-FT): PO=144 PU=73.7 LR=98.2 LRA=350

