

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							

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		1	
NEMA Design Code		L		KVA Code		C	
Service Factor (S.F.)		1		No-load Current		9.37 A	
NEMA Nom. Eff.		0		Power Factor		0	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		83°C	
				Line-line Res. @ 25°C		0.098033 Ω A Ph 0.32402 Ω B Ph	

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

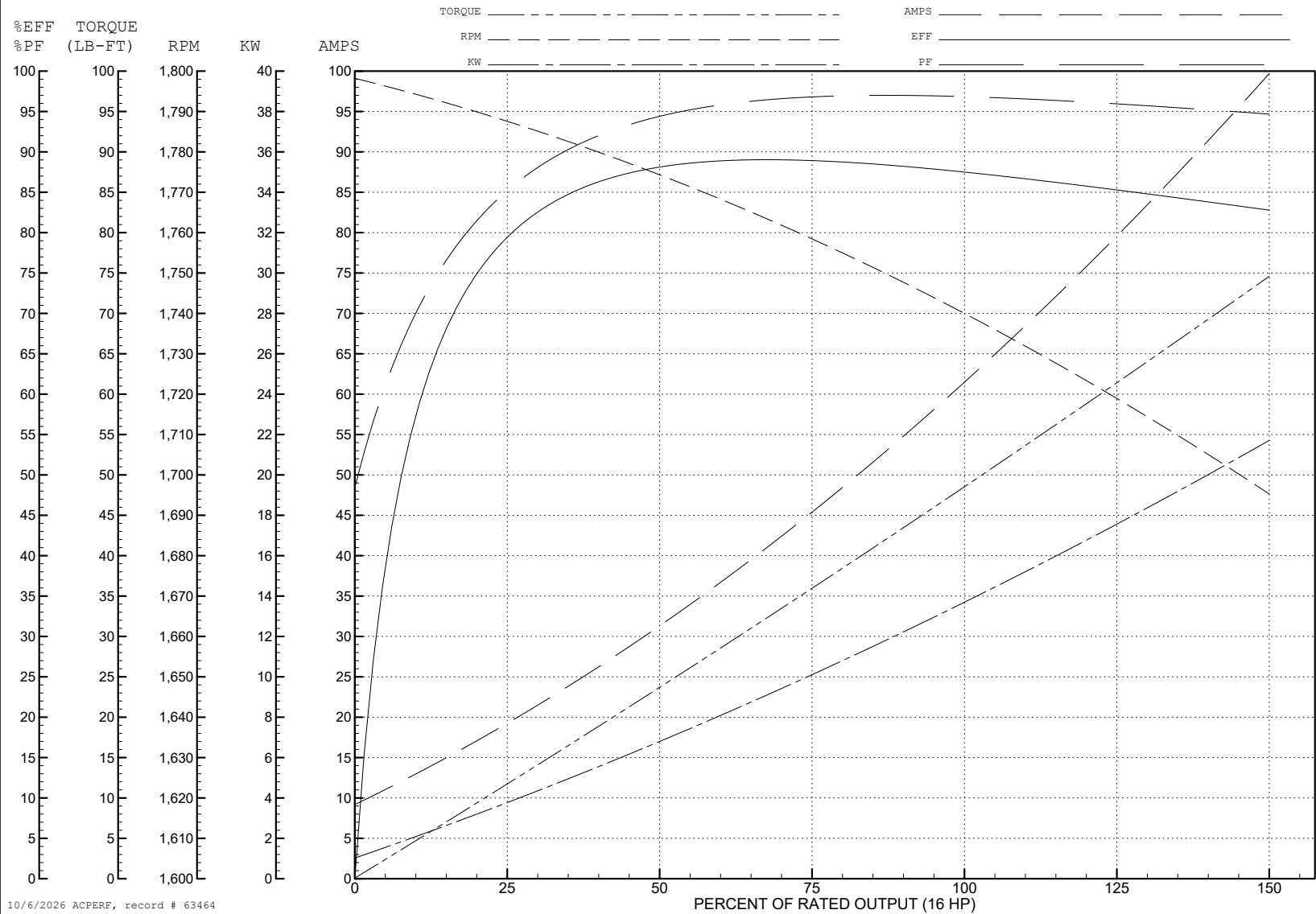
ABB Motors and Mechanical Inc.

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		Locked-rotor Torque		98.2 LB-FT	
NEMA Design Code		L KVA Code		Starting Current		350 A	
Service Factor (S.F.)		1		No-load Current		29.1 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		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

