

ABB BALDOR RELIANCE III

Customer information packet

M1227T

15/6.7HP, 1760/1160RPM, 3PH, 60HZ, 284T, 4040

Specifications

Enclosure	OPSB
Frame	284T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ 6.700 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CSA UR
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	17.900 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
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	11.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs

Part Detail

Revision	Q
Type	AC
Mech. spec.	40D101
Base	
Status	PRD/A
Elec. spec.	40WGX175
Layout	40LYD101
Eff. date	06-13-2025
CD Diagram	CD0013
Poles	04/06
Leads	6#10
Proprietary	False
Created date	02-12-2010

Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4040M
Mounting Arrangement	F1
Number of Poles	4 6
Overall Length	23.81 IN
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1180 rpm 1740 rpm
Speed Code	2S-2W-VT
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1256L											
CAT.NO.	M1227T										
SPEC.	40D101X175										
HP	15/6.7										
VOLTS	460										
AMP	17.9/11.5										
RPM	1740/1180										
FRAME	284T		HZ	60				PH	3		
SER.F.	1.15		CODE	G	DES	B		CLASS	F		
NEMA-NOM-EFF			PF								
RATING	40C AMB-CONT										
CC											
DE	6311		ODE	6309							
ENCL	OPSB		SN								

Accessories

Part number	Description	Multiplier
40-1400	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 57716

Typical performance - not guaranteed values

Winding: 40WGX175-R001			Type: 4040M		Enclosure: OPEN			
Nameplate Data			460 V, 60 Hz: High Speed Connection					
Rated Output (HP)		15/6.7	Full Load Torque		45 LB-FT			
Volts		460	Start Configuration		direct on line			
Full Load Amps		18.1/12.6	Breakdown Torque		135 LB-FT			
R.P.M.		1760/1160	Pull-up Torque		65.3 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		89.3 LB-FT		
NEMA Design Code		A	KVA Code	H		Starting Current	113 A	
Service Factor (S.F.)		1.15	No-load Current		4.7 A			
NEMA Nom. Eff.		0	Power Factor		0		Line-line Res. @ 25°C	1.0251 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		38°C	
S.F. Amps			Temp. Rise @ S.F. Load		46°C			
			Locked-rotor Power Factor		39.1			

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	65	82	87	89	90	89	90
Efficiency	83.3	87.6	88.2	87.3	86.1	84.1	86.6
Speed	1785.3	1771.7	1757.2	1741.4	1724.2	1703.4	1731
Line amperes	6.68	9.96	13.8	17.9	22.2	27	20.5

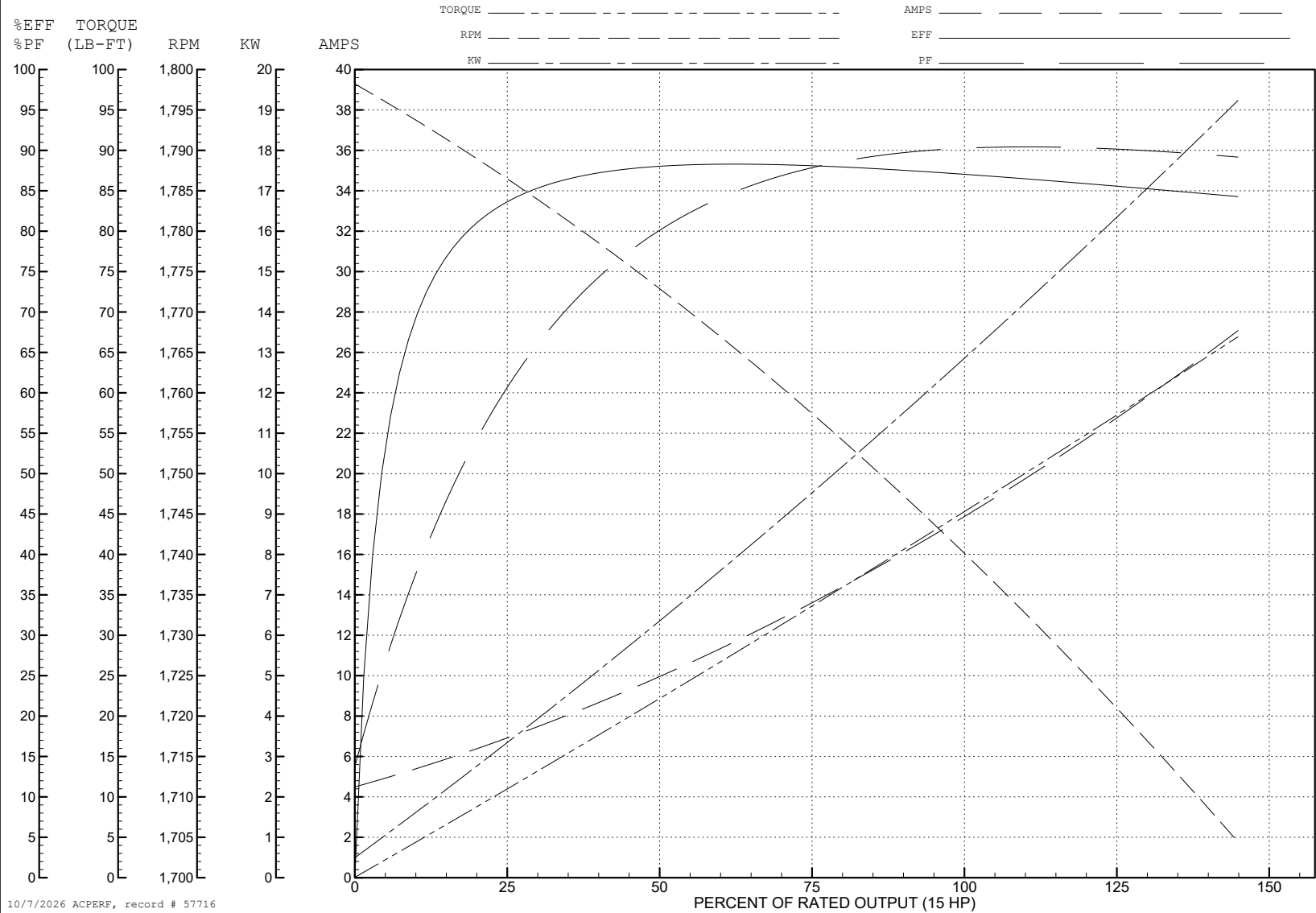
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WINDING # 40WGX175

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1741.4 RPM 460 V 4040M

TORQUES (LB-FT): PO=135 PU=65.3 LR=89.3 LRA=113



AC Induction Motor Performance Data

Record # 57717

Typical performance - not guaranteed values

Winding: 40WGX175-R001			Type: 4040M		Enclosure: OPEN		
Nameplate Data			460 V, 60 Hz: Low Speed Connection				
Rated Output (HP)		15/6.7	Full Load Torque		30.5 LB-FT		
Volts		460	Start Configuration		direct on line		
Full Load Amps		18.1/12.6	Breakdown Torque		132 LB-FT		
R.P.M.		1760/1160	Pull-up Torque		54.3 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		70.6 LB-FT	
NEMA Design Code		A	KVA Code	H		Starting Current	77.2 A
Service Factor (S.F.)		1.15	No-load Current		7.66 A		
NEMA Nom. Eff.		0	Power Factor		0		
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		34°C
S.F. Amps					Temp. Rise @ S.F. Load		38°C
					Locked-rotor Power Factor		39.1

Load Characteristics 460 V, 60 Hz, 6.7 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	44	55	64	70	73	68
Efficiency	71.6	82.3	85.5	87	87.3	87.3	87.2
Speed	1194.3	1189.7	1185.2	1180.3	1175	1169.5	1177
Line amperes	8.1	8.99	10.1	11.5	13.1	14.7	12.5

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WINDING # 40WGX175

Typical performance - not guaranteed values.

6.7 HP 3 PH 60 HZ 1180.3 RPM 460 V 4040M

TORQUES (LB-FT): PO=132 PU=54.3 LR=70.6 LRA=77.2

