

ABB BALDOR RELIANCE III

Customer information packet

CEM7060T-I

30//25HP, 1770//1470RPM, 3PH, 60//50HZ, 286T

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	286TC
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 50 HZ 30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 V @ 50 HZ
Agency Approvals	CSA UL
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	76.000 A @ 208.0 V 74.000 A @ 190.0 V 72.000 A @ 230.0 V 37.000 A @ 380.0 V 36.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	AN
Type	AC
Mech. spec.	10E949
Base	
Status	PRD/A
Elec. spec.	10WGY758
Layout	10LYE949
Eff. date	11-22-2024
CD Diagram	CD0005
Poles	04
Leads	9#10
Proprietary	False
Created date	06-10-2010

Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	36.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1056M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.61 IN
Power Factor	83
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
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	Shaft Slinger

Speed	1470 rpm 1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	NONE (OLD)
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP0977XPSLEV												
NO.							CC	010A				
SER.							TEMP CODE	T3C				
SPEC.	10E949Y758G1											
CAT.NO.	CEM7060T-I											
HP	30//25 NEMA MG-1 PT.5,IP55											
VOLTS	230/460//190/380											
AMPS	72/36//74/37											
RPM	1770//1470						MOTOR WEIGHT			518		
HERTZ	60//50	PH	3	CL	F	DE BRG	6311					
SER.F.	1.15	DES	A	CODE	G	ODE BRG			6309			
FRAME	286TC		GREASE		POLYREX EM							
RATING	40C AMB-CONT											
					NEMA-NOM-EFF				93.6		PF	83
	55C AMB @ 1.0 SF 60C RISE											

AC Induction Motor Performance Data

Record # 53263

Typical performance - not guaranteed values

Winding: 10WGY758-R018			Type: 1056M		Enclosure: XPFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		30//25		Full Load Torque		89.1 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		72/36//74/37		Breakdown Torque		270 LB-FT	
R.P.M.		1770//1470		Pull-up Torque		128 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		145 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		235 A
Service Factor (S.F.)		1.15		No-load Current		15.9 A	
NEMA Nom. Eff.		93.6	Power Factor	83	Line-line Res. @ 25°C		0.226 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		57°C	
S.F. Amps				Temp. Rise @ S.F. Load		71°C	
				Locked-rotor Power Factor		32	
				Rotor inertia		4.45 LB-FT2	

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	44	66	75	83	83	83	83
Efficiency	90.6	93.7	94.3	94	93.2	93	93.5
Speed	1794	1787	1781	1774	1766	1757	1769
Line amperes	17.9	23	30.1	36.2	45.3	54.5	41.7

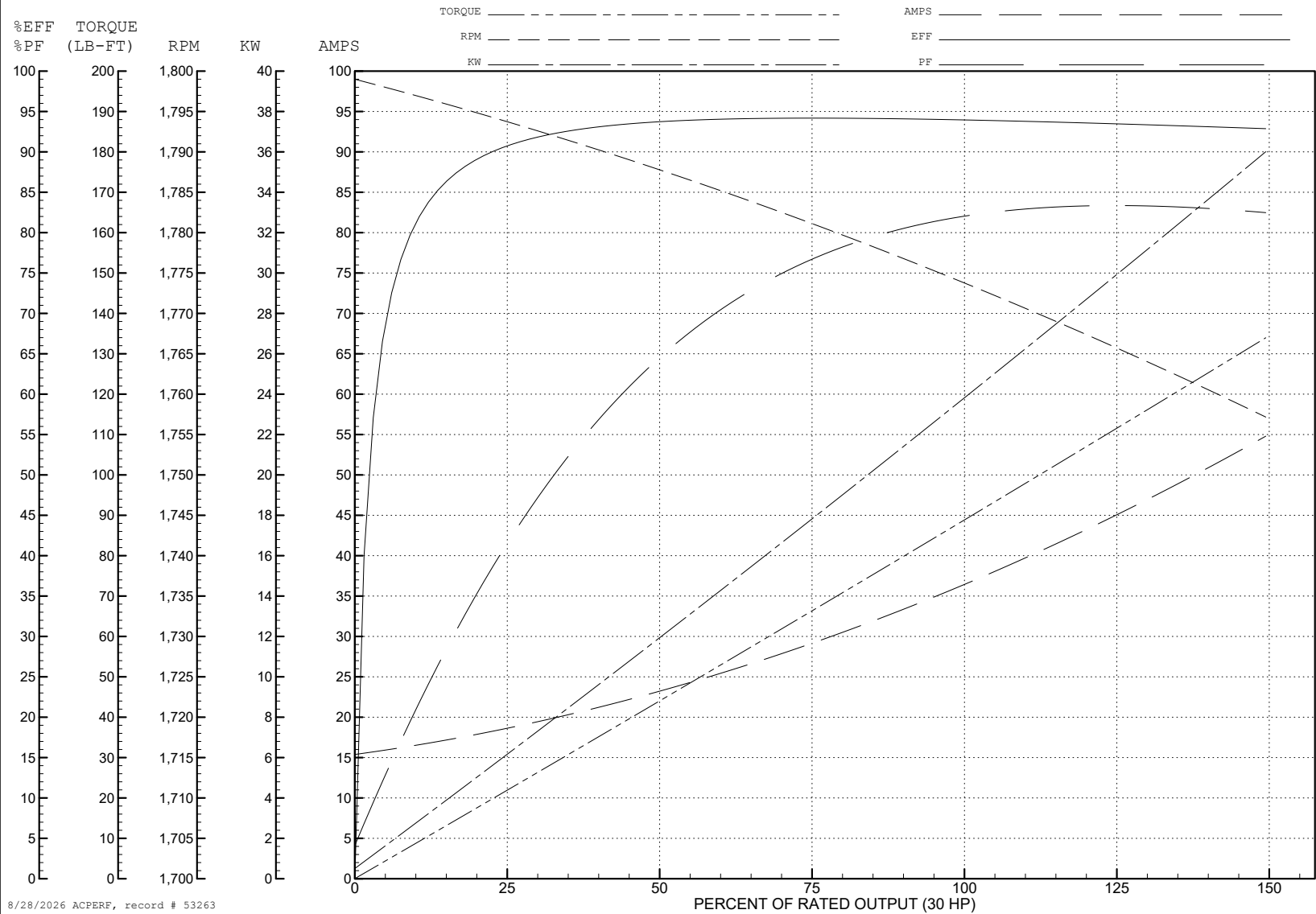
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WINDING # 10WGY758

Typical performance - not guaranteed values.

30 HP 3 PH 60 HZ 1774 RPM 460 V 1056M

TORQUES (LB-FT): PO=270 PU=128 LR=145 LRA=235



AC Induction Motor Performance Data

Record # 53264

Typical performance - not guaranteed values

Winding: 10WGY758-R018			Type: 1056M		Enclosure: XPFC		
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		30//25		Full Load Torque		89.3 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		72/36//74/37		Breakdown Torque		267 LB-FT	
R.P.M.		1770//1470		Pull-up Torque		131 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		149 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		224 A
Service Factor (S.F.)		1.15		No-load Current		15.5 A	
NEMA Nom. Eff.		93.6	Power Factor	83	Line-line Res. @ 25°C		0.226 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		57°C	
S.F. Amps				Temp. Rise @ S.F. Load		75°C	
				Locked-rotor Power Factor		35	
				Rotor inertia		4.45 LB-FT2	

Load Characteristics 380 V, 50 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	67	76	83	83	83	83
Efficiency	90	93.2	93.7	93.4	91.9	92	92.5
Speed	1494	1487	1481	1474	1466	1457	1469
Line amperes	17.6	22.9	30.2	36.5	45.9	55.5	42.1

ABB Motors and Mechanical Inc.

WINDING # 10WGY758

Typical performance - not guaranteed values.

25 HP 3 PH 50 HZ 1474 RPM 380 V 1056M

TORQUES (LB-FT): PO=267 PU=131 LR=149 LRA=224

