

ABB BALDOR RELIANCE III

Customer information packet

CXM18522T

5//3HP, 3450//2900RPM, 3PH, 60//50HZ, 184TC

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	184TC
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 50 HZ 5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV 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
Constant Torque Speed Range	6
Current @ Voltage	8.800 A @ 190.0 V 5.900 A @ 460.0 V 4.400 A @ 380.0 V 12.000 A @ 208.0 V 11.800 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	-
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGS042
Layout	36LYK919
Eff. date	02-23-2021
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	02-17-2021

Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Frame Prefix	RL
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	4.4 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3630M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	18.86 IN
Power Factor	91
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3450 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

NP0887XPSLEV													
NO.							CC	010A					
S/N							TEMP CODE		T3C				
SPEC.	36-0000-0467						INV.TYPE		PWM				
CAT.NO.	CXM18522T						C HP FR		60	C HP TO		90	
HP	5//3						CT HZ FROM		6	CT HZ TO		60	
VOLTS	230/460//190/380						VT HZ FROM		6	VT HZ TO		60	
AMPS	11.8/5.9//8.8/4.4				MAG CUR		3.4/1.7						
RPM	3450//2900				MX RPM		5400						
HZ	60//50	PH	3	CL	F	NOM.EFF.		88.5					
SER.F.	1.00	DES	A	SL HZ		2.3	WK2	0.14					
FRAME	184TC	RATING		40C AMB-CONT									
	NEMA MG-1 PART 5, IP54												
	1.15 SF ON SINE WAVE												

AC Induction Motor Performance Data

Record # 49265

Typical performance - not guaranteed values

Winding: 36WGS042-R049				Type: 3630M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		5//3		Full Load Torque		7.67 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		11.8/5.9//9/4.5		Breakdown Torque		33.7 LB-FT	
R.P.M.		3450//2900		Pull-up Torque		23.5 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		27.5 LB-FT	
NEMA Design Code		A	KVA Code	Starting Current		57.2 A	
Service Factor (S.F.)		1.15		No-load Current		1.68 A	
NEMA Nom. Eff.		88.5	Power Factor	Line-line Res. @ 25°C		2.26 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		72°C	
S.F. Amps				Temp. Rise @ S.F. Load		88°C	
				Locked-rotor Power Factor		45.1	
				Rotor inertia		0.134 LB-FT2	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	62	81	88	91	93	94	92
Efficiency	84.1	88.9	89.4	88.7	87.3	85.8	87.9
Speed	3569	3537	3504	3466	3428	3385	3443
Line amperes	2.24	3.26	4.47	5.85	7.26	8.8	6.7

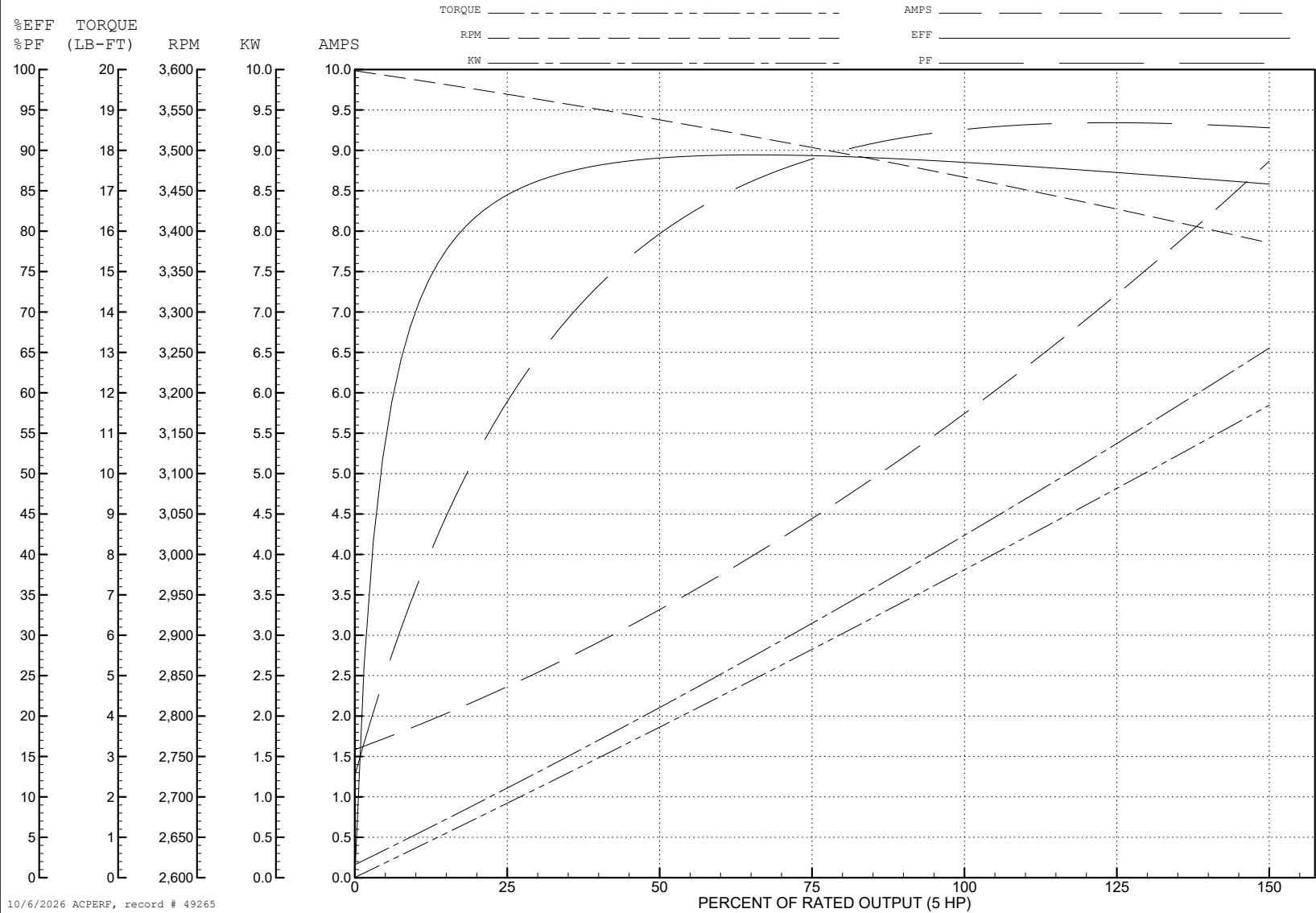
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WINDING # 36WGS042

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 3466 RPM 460 V 3630M

TORQUES (LB-FT): PO=33.7 PU=23.5 LR=27.5 LRA=57.2



AC Induction Motor Performance Data

Record # 49266

Typical performance - not guaranteed values

Winding: 36WGS042-R049				Type: 3630M		Enclosure: TEFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		5//3		Full Load Torque		5.5 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		11.8/5.9//8.8/4.4		Breakdown Torque		31.6 LB-FT	
R.P.M.		3450//2900		Pull-up Torque		25 LB-FT	
Hz		60//50		Phase		3	
NEMA Design Code		A		KVA Code		L	
Service Factor (S.F.)		1.15		No-load Current		1.64 A	
NEMA Nom. Eff.		88.5		Power Factor		91	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		48°C	
S.F. Amps				Temp. Rise @ S.F. Load		58°C	
				Locked-rotor Power Factor		51.3	
				Rotor inertia		0.134 LB-FT2	

Load Characteristics 380 V, 50 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	53	74	84	88	91	92	90
Efficiency	80.5	86.8	88.3	88.1	87.1	86.1	87.5
Speed	2976	2953	2928	2899	2871	2840	2882
Line amperes	1.99	2.66	3.48	4.42	5.39	6.45	5

ABB Motors and Mechanical Inc.

WINDING # 36WGS042

Typical performance - not guaranteed values.

3 HP 3 PH 50 HZ 2899 RPM 380 V 3630M

TORQUES (LB-FT): PO=31.6 PU=25 LR=29.2 LRA=54.3

