

ABB BALDOR RELIANCE III

Customer information packet

GDL1605T

5HP, 1725RPM, 1PH, 60HZ, 184TZ, 3646LC, ODTF, F

Class - None

Division - Not Applicable

Specifications

Enclosure	ODTF
Frame	184TZ
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	5.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	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	22.500 A @ 230.0 V
Design Code	L
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	22.5 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	L
Type	AC
Mech. spec.	36M937
Base	
Status	PRD/A
Elec. spec.	36WGW417
Layout	36LYM937
Eff. date	01-21-2025
CD Diagram	CD0017A02
Poles	04
Leads	2#10 A PH,2#16 B PH
Proprietary	False
Created date	02-05-2010

KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 10 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3646LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.11 IN
Power Factor	76
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	Included
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1725 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

NP1256L									
CAT.NO.	GDL1605T								
SPEC.	36M937W417G1								
HP	5								
VOLTS	230								
AMP	22.5								
RPM	1725								
FRAME	184TZ		HZ	60			PH	1	
SER.F.	1.00	CODE	J	DES	L	CLASS	F		
NEMA-NOM-EFF	80	PF	76						
RATING	40C AMB-CONT								
CC									
DE	6206		ODE	6205					
ENCL	ODTF	SN							

AC Induction Motor Performance Data

Record # 10764

Typical performance - not guaranteed values

Winding: 36GW417-R001			Type: 3646LC		Enclosure: TEFC		
Nameplate Data			230 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		5	Full Load Torque		15 LB-FT		
Volts		230	Start Configuration		direct on line		
Full Load Amps		22.5	Breakdown Torque		45 LB-FT		
R.P.M.		1725	Pull-up Torque		39 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		45 LB-FT	
NEMA Design Code		L	KVA Code	J	Starting Current		174 A
Service Factor (S.F.)		1	No-load Current		8.5 A		
NEMA Nom. Eff.		80	Power Factor	76	Line-line Res. @ 25°C		0.349 Ω A Ph 2.38 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		104°C	

Load Characteristics 230 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	60	77	85	88	90	90
Efficiency	65.3	77.8	81.7	82.5	81.5	79.3
Speed	1785	1771	1756	1739	1719	1694
Line amperes	10.3	13.5	17.5	22.2	27.7	34

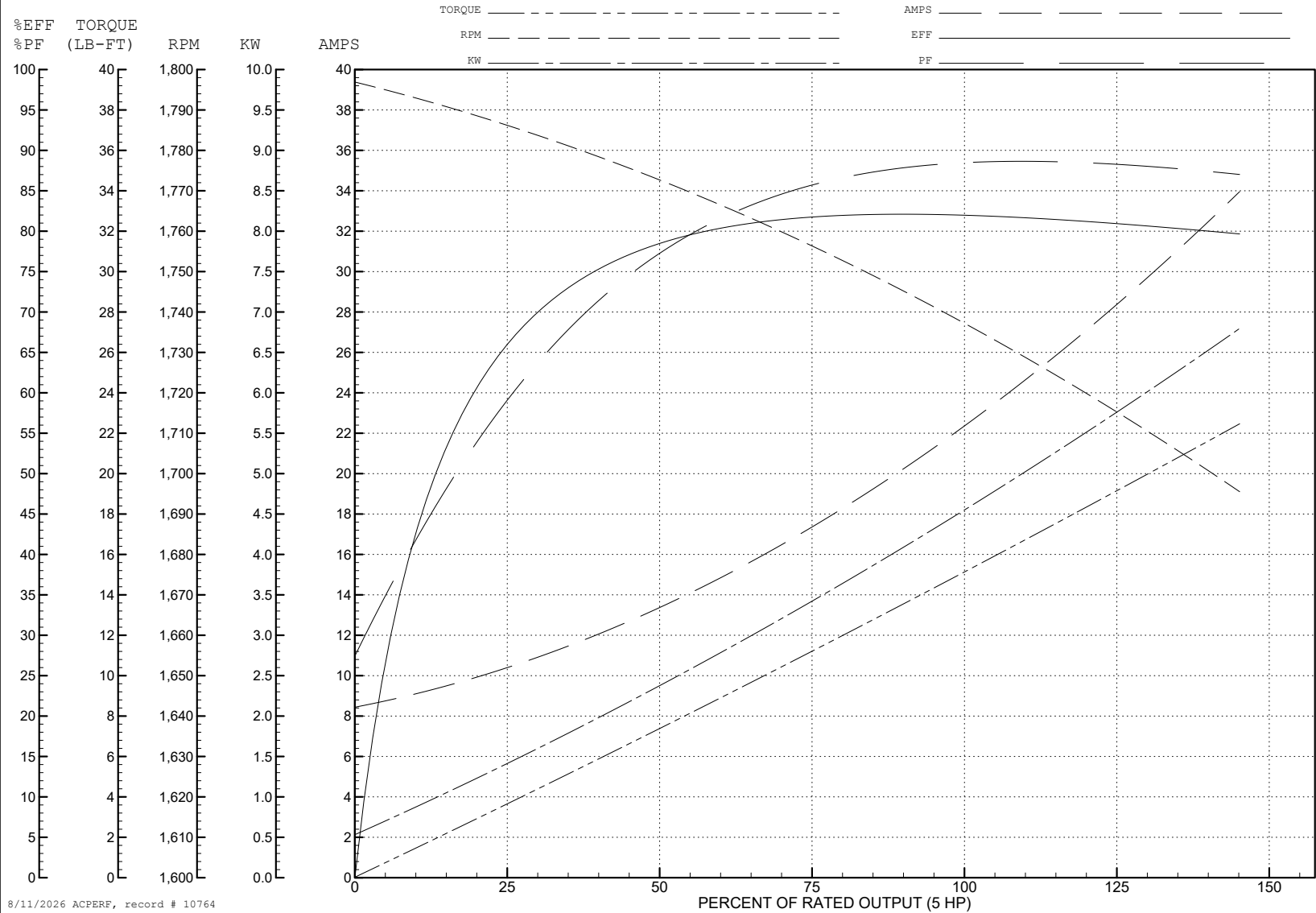
ABB Motors and Mechanical Inc.

WINDING # 36WGW417

Typical performance - not guaranteed values.

5 HP 1 PH 60 HZ 1725 RPM 230 V 3646LC

TORQUES (LB-FT) : PO=45 PU=39 LR=45 LRA=174



CD0017A02

