

ABB BALDOR RELIANCE III

Customer information packet

CEDM3613T

5HP, 3450RPM, 3PH, 60HZ, 184TC, 3630M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CCSA US CSA EEV NEMA PREMIUM NEMA_PREMIUM 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
Constant Torque Speed Range	6
Current @ Voltage	5.900 A @ 460.0 V 12.600 A @ 208.0 V 11.800 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	G
Type	AC
Mech. spec.	36Q736
Base	
Status	PRD/A
Elec. spec.	36WGS042
Layout	36LYQ736
Eff. date	06-24-2021
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	04-22-2016

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	5.9 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3630M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.60 IN
Power Factor	91
Product Family	Dirty Duty Plus
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
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	3450 rpm
Speed Code	Single Speed
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

NP3504											
CAT NO	CEDM3613T										
SPEC.	36Q736S042G1						ENCL	TEFC			
FRAME	184TC	HP	5								
VOLTS	230/460										
FLA	11.8/5.9					I.P.	56				
RPM	3450	RPM MAX				5400					
HZ	60	PH	3	CLASS		F					
SER.F.	1.15	DES	A	CC	010A						
NEMA-NOM-EFF	88.5										
RATING	40C AMB-CONT										
DE BRG	6206	ODE BRG					6205				
GREASE	POLYREX EM										
C HP FR	60	C HP TO		90							
CT HZ FROM	6	CT HZ TO			60	VT HZ FROM	6	VT HZ TO	60		
SER.NO	50C AT 1.0 SF										

AC Induction Motor Performance Data

Record # 55773

Typical performance - not guaranteed values

Winding: 36WGS042-R054			Type: 3630M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		5	Full Load Torque		7.67 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		11.8/5.9	Breakdown Torque		33.7 LB-FT	
R.P.M.		3450	Pull-up Torque		23.5 LB-FT	
Hz	60	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		2.3313 Ω
Rating - Duty		40C	AMB-CONT	Temp. Rise @ Rated Load		72°C
S.F. Amps				Temp. Rise @ S.F. Load		89°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	93	92
Efficiency	84.2	88.9	89.4	88.6	87.3	85.6	87.8
Speed	3568.7	3537.4	3504.2	3465.8	3428.2	3385	3443
Line amperes	2.24	3.26	4.47	5.85	7.26	8.8	6.7

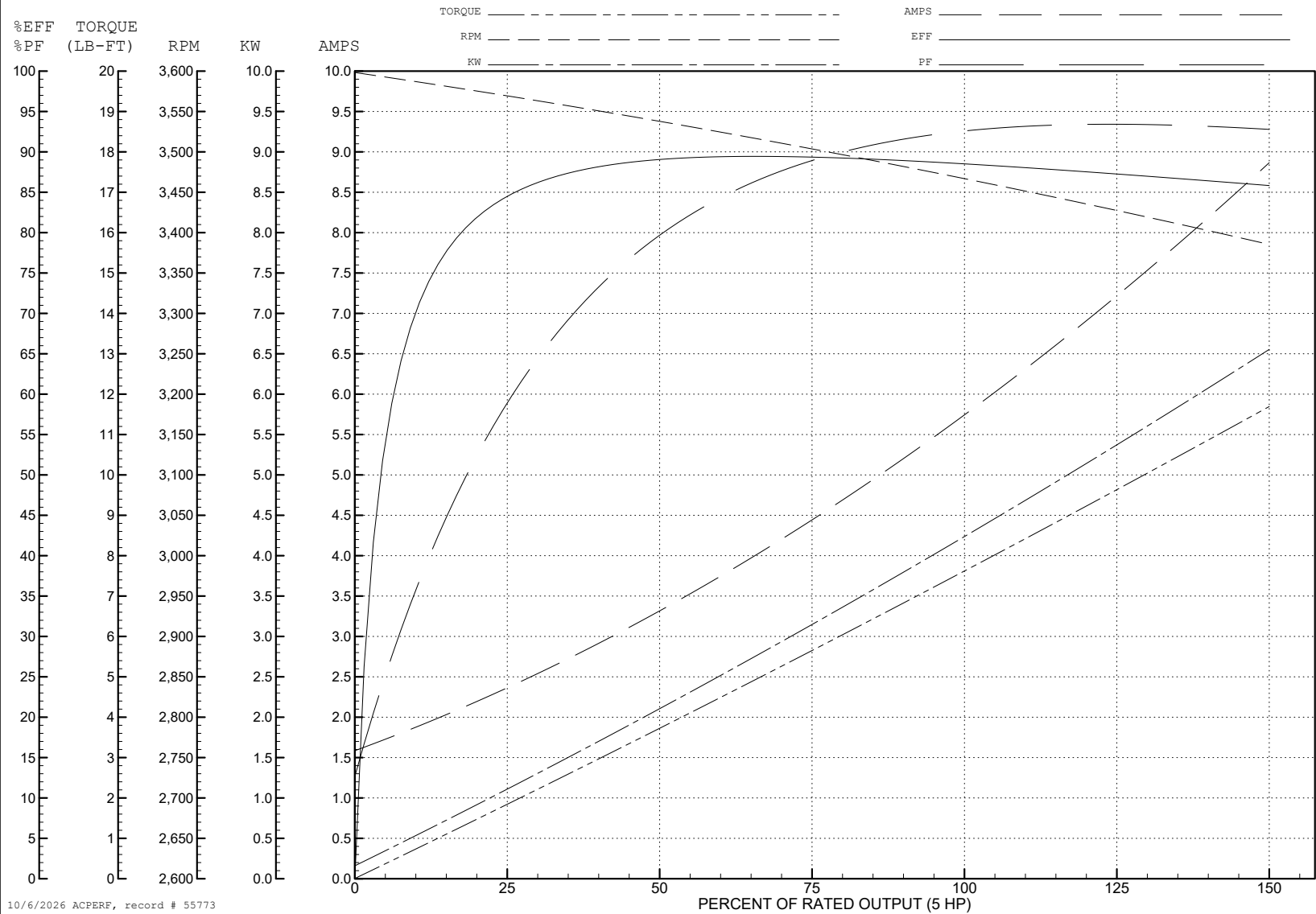
ABB Motors and Mechanical Inc.

WINDING # 36WGS042

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 3450 RPM 460 V 3630M

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



REV. DESC: ADD ".75 DEEP ON" TO T-BOLT HOLES TO DWG			
REV: B	VERSION: 02	REVISED: 11:23:45 09/12/2024	TDR: 00000124086
MODEL NO. 36LYQ736			REF: -
BY: USCHHOL5			

STD HORZ 182-4TC TEFC 36M DDP

