

ABB BALDOR RELIANCE III

Customer information packet CEM2549T

75HP, 3540RPM, 3PH, 60HZ, 364TSC, OPSB, F1

Specifications

Enclosure	OPSB
Frame	364TSC
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	75.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM
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	82.000 A @ 460.0 V 164.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	82.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	42WGW903
Layout	42LY-000-021
Eff. date	02-12-2024
CD Diagram	CD0180
Poles	02
Leads	9#6
Proprietary	False
Created date	03-06-2020

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4254M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	25.81 IN
Power Factor	91
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3540 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
NP2138L

CAT.NO.	CEM2549T				P/N						ENCLOSURE		OPSB				
SPEC.	42-0000843			CC	010A		FRAME		364TSC		S/N						
HP	75				CLASS		F		HZ		60						
RPM	3540				PH	3		DES		A							
VOLT	230/460								KVA-CODE		G		ODE BRG		6311	DE BRG	6313
AMP	164/82																
RATING	40C AMB-CONT						GREASE		POLYREX EM								
NEMA-NOM-EFF	93.6	PF	91	SER.F.		1.15											
HTR-VOLTS			HTR-AMPS														

AC Induction Motor Performance Data

Record # 33387

Typical performance - not guaranteed values

Winding: 42WGW903-R001			Type: 4254M		Enclosure: OPSB	
Nameplate Data				460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		75		Full Load Torque		111 LB-FT
Volts		230/460		Start Configuration		direct on line
Full Load Amps		164/82		Breakdown Torque		382 LB-FT
R.P.M.		3540		Pull-up Torque		135 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		172 LB-FT
NEMA Design Code		B	KVA Code	Starting Current		556 A
Service Factor (S.F.)		1.15		No-load Current		18.5 A
NEMA Nom. Eff.		93.6	Power Factor	Line-line Res. @ 25°C		0.0817 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		42°C
S.F. Amps				Temp. Rise @ S.F. Load		52°C
				Locked-rotor Power Factor		22
				Rotor inertia		4.22 LB-FT2

Load Characteristics 460 V, 60 Hz, 75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	72	86	90	91	90	89	90
Efficiency	93	95.1	95	94.3	93.7	92.6	94
Speed	3588	3574	3558	3540	3521	3500	3529
Line amperes	26.4	43	61.6	81.5	103	126	94.4

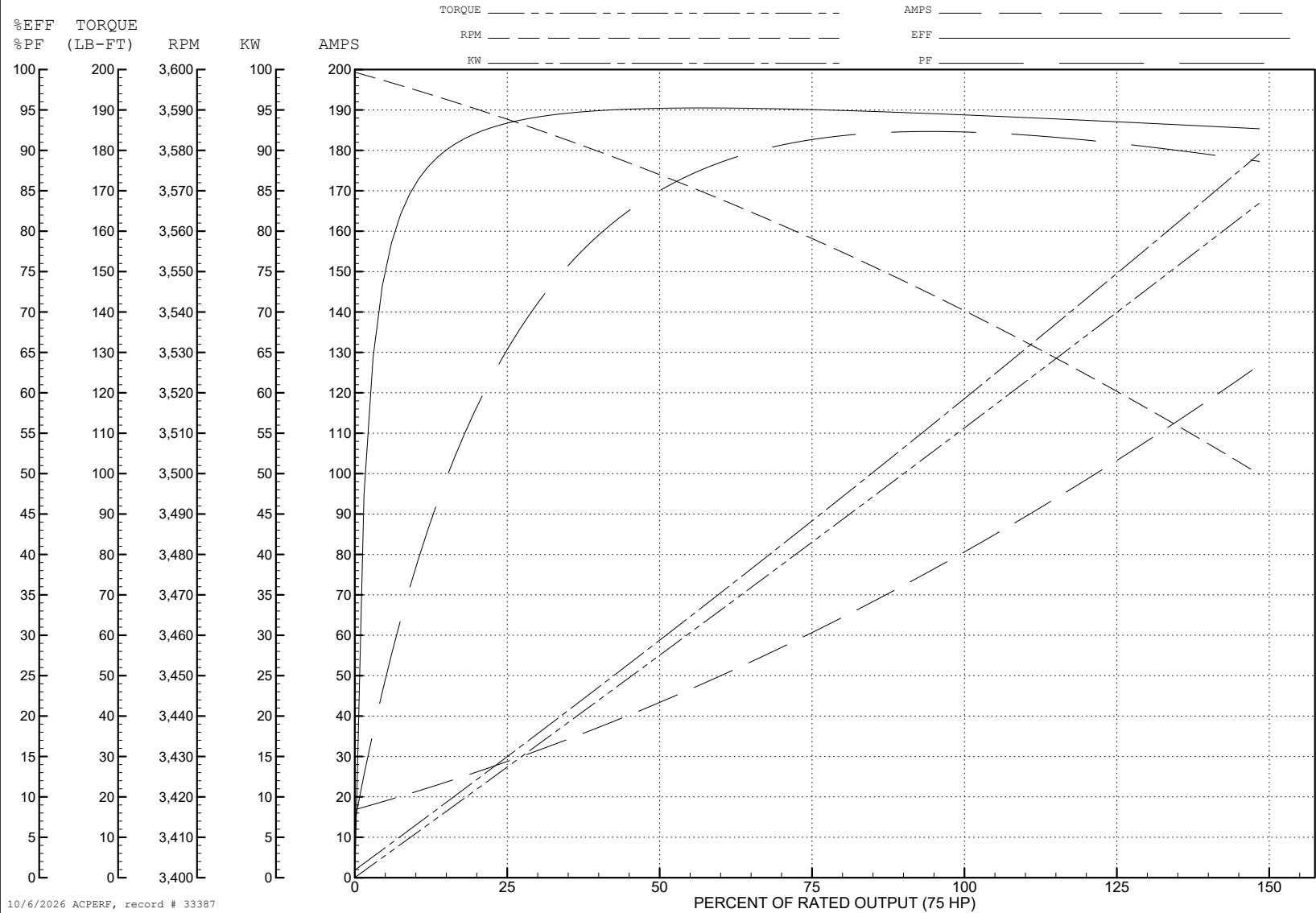
ABB Motors and Mechanical Inc.

WINDING # 42WGW903

Typical performance - not guaranteed values.

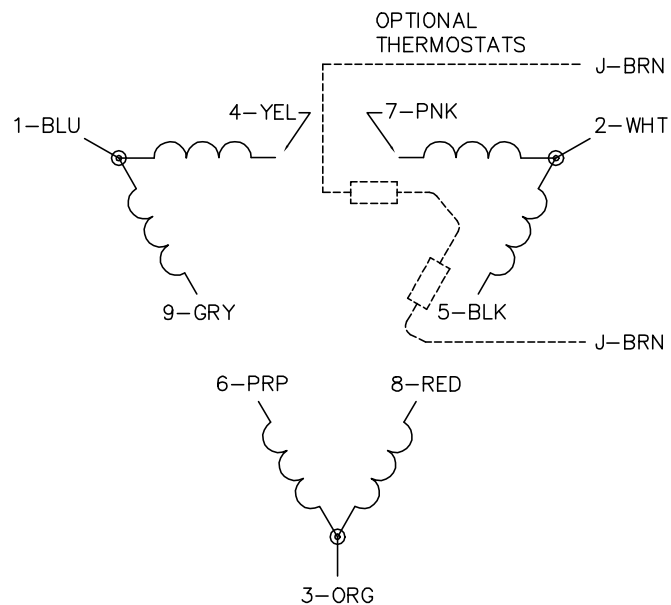
75 HP 3 PH 60 HZ 3540 RPM 460 V 4254M

TORQUES (LB-FT): PO=382 PU=135 LR=172 LRA=556

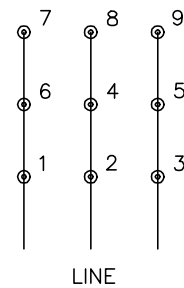




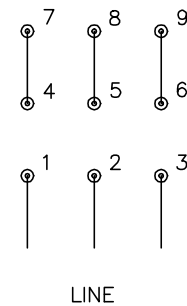
CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0180

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: —



BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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