

ABB BALDOR RELIANCE III

Customer information packet

CEM2554T-4

125HP, 3540RPM, 3PH, 60HZ, 404TSC, 4476M, OPSB

Specifications

Enclosure	OPSB
Frame	404TSC
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
	NEMA PREMIUM (OLD LOGO)
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	143.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	143.0 a
Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	44WGW324
Layout	44LYE021
Eff. date	03-11-2026
CD Diagram	CD0382
Poles	02
Leads	6#6
Proprietary	False
Created date	08-19-2021

Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4476M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	33.59 IN
Power Factor	88
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3540 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
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.	CEM2554T-4			P/N					ENCLOSURE		OPSB			
SPEC.	44-0000-0086		CC	010A	FRAME		404TSC		S/N					
HP	125			CLASS		F	HZ	60						
RPM	3540			PH	3	DES		B						
VOLT	460						KVA-CODE		G	ODE BRG		6312	DE BRG	6313
AMP	143													
RATING	40C AMB-CONT			GREASE		POLYREX EM								
NEMA-NOM-EFF	94.1	PF	88	SER.F.		1.15								
	50HZ 125HP 380V 170A SF1.0													
HTR-VOLTS			HTR-AMPS											

AC Induction Motor Performance Data

Record # 33221

Typical performance - not guaranteed values

Winding: 44WGW324-R001			Type: 4476M		Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		125	Full Load Torque		187 LB-FT		
Volts		460	Start Configuration		direct on line		
Full Load Amps		143	Breakdown Torque		554 LB-FT		
R.P.M.		3540	Pull-up Torque		197 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		295 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		893 A
Service Factor (S.F.)		1.15	No-load Current		35.7 A		
NEMA Nom. Eff.		94.1	Power Factor	88	Line-line Res. @ 25°C		0.038466 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		39°C	
S.F. Amps				Temp. Rise @ S.F. Load		48°C	
				Locked-rotor Power Factor		17.2	
				Rotor inertia		9.94 LB-FT2	

Load Characteristics 460 V, 60 Hz, 125 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	65	83	87	88	89	88	89
Efficiency	91.9	94.5	94.7	94.3	93.7	92.8	93.9
Speed	3588.6	3581.9	3573.7	3564.4	3553.5	3541.5	3558
Line amperes	51	78.3	108	143	179	217	165

ABB Motors and Mechanical Inc.

WINDING # 44WG324

Typical performance - not guaranteed values.

125 HP 3 PH 60 HZ 3540 RPM 460 V 4476M

TORQUES (LB-FT): PO=554 PU=197 LR=295 LRA=893



