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# Customer information packet

## M3457

.33HP, 3450RPM, 3PH, 60HZ, 48, 3410M, TENV, F1

Class - None

Division - Not Applicable

## Specifications

Enclosure	TENV
Frame	48
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	.330 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	CSA UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.600 A @ 208.0 V 1.400 A @ 230.0 V .700 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	72.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

## Part detail

Revision	N
Type	AC
Mech. spec.	34A075
Base	
Status	PRD/A
Elec. spec.	34WGY170
Layout	34LYA075
Eff. date	02-08-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	0.7 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	P
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3410M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	9.62 IN
Power Factor	64
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.35
Shaft Diameter	0.500 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

NP1256L									
CAT.NO.	M3457								
SPEC.	34A075Y170								
HP	.33								
VOLTS	230/460								
AMP	1.4/.7								
RPM	3450								
FRAME	48		HZ	60		PH	3		
SER.F.	1.35	CODE	P	DES	B	CLASS	B		
NEMA-NOM-EFF	72	PF	64						
RATING	40C AMB-CONT								
CC									
DE	6203		ODE	6203					
ENCL	TENV	SN							
	SFA 1.5/.75								

**Accessories**

Part number	Description	Multiplier
34-3900T	C-FACE KIT	A8

## AC Induction Motor Performance Data

Record # 28270

Preliminary Data Sheet

Winding: 34WGY170-R001			Type: 3410M		Enclosure: TENV		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		.33		Full Load Torque		0.5 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		1.4/.7		Breakdown Torque		3.4 LB-FT	
R.P.M.		3450		Pull-up Torque		2.4 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		2.6 LB-FT	
NEMA Design Code		B	KVA Code	P	Starting Current		5.8 A
Service Factor (S.F.)		1.35		No-load Current		0.56 A	
NEMA Nom. Eff.		72	Power Factor	64	Line-line Res. @ 25°C		31.7 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		57°C	
S.F. Amps		1.5/.75		Temp. Rise @ S.F. Load		66°C	

## Load Characteristics 460 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	42	55	63	73	77	75
Efficiency	43.7	62	68.3	72.8	74.4	75.8	75
Speed	3569	3544	3526	3497	3477	3444	3464
Line amperes	0.57	0.6	0.63	0.68	0.71	0.79	0.742

ABB Motors and Mechanical Inc.

WINDING # 34WGY170

Typical performance - not guaranteed values.

0.33 HP 3 PH 60 HZ 3450 RPM 460 V 3410M

TORQUES (LB-FT): PO=3.4 PU=2.4 LR=2.6 LRA=5.8







