

DREHSTROM-ASYNCHRONMOTOR FWM 280 S 4 /PHE

IE3OM28S4008

Allgemeine Daten

Motorart	3~
Typenbezeichnung	FWM
Baugröße	280
Bauform	B5
Gehäuseausführung	S
Gehäusematerial	Grauguß
Isolationsklasse	F/B
Klemmkastenlage	oben AS
Klemmkasten Ausrichtung	KV nach rechts
Gewicht (kg)	576
Drehrichtung	rechts / links
Schwingstufe	A
Wuchtert	Halbkeil
Kühlungsart	IC411
Ausführung nach	IEC 60034-1
Geräuschgrenzwert	IEC 60034-9

Einflussfaktoren

Betriebsart	S1
Umgebungstemperatur (°C)	-20 bis +40
Aufstellhöhe (m)	1000

Elektrische Daten

Leistung 1 50Hz (kW)	75
Leistung 1 60Hz (kW)	75
Frequenz (Hz)	50/60
Spannung 50Hz (V)	500
Spannung 60Hz (V)	575
Spannungstoleranz	+/-10%
Schaltungsart	Δ
Polzahl	4
Wirkungsgrad 100% 50Hz (%)	95
Wirkungsgrad 75% 50Hz (%)	95,1
Wirkungsgrad 50% 50Hz (%)	92,2
Wirkungsgrad 100% 60Hz (%)	95,4
Leistungsfaktor	0,88
Anlaufstromfaktor (Ia/In)	7
Anlaufmomentfaktor (Ma/Mn)	2
Kippmomentfaktor (Mk/Mn)	2,3
Nennstrom 50Hz (A)	103,59
Nennstrom 60Hz (A)	89,70
Eff.Cl. 50Hz	IE3
Eff.Cl. 60Hz	IE3

Mechanische Daten

Drehmoment (Nm)	483,95/403,29
Drehzahl (1/min)	1480/1776
Kugellager AS	6317.C3
Kugellager BS	6317.C3
Lagerung AS	Festlager
Lagerung BS	Loslager
Lagerlebensdauer (h)	20000
zul. Radiallast (X/2)	7050
zul. Radiallast (X0)	7790
zul. Radiallast (Xmax)	6430
zul. Axiallast	4400
zul. Axiallast (V1)	3000
Trägheitsmoment (kgm²)	1,3885

Motor Eigenschaften

Farbton	RAL7030
Lackoberfläche	glänzend
Schutzklasse	IP55
Kabelverschraubung Größe (Kabelanschluss)	2xM63x1,5
Kabelverschraubung Größe (Option)	M20x1,5
Kabelverschraubung (Art)	Standard
Wellenende (mm)	75 x 140
Wellenmaterial	C45
Ausprägung BS	Lüfterflügel Kunststoff

Zusätzliche Betriebspunkte

Spannung Betriebspunkt 2	575
Leistung Betriebspunkt 2 (kW)	90
Schaltungsart Betriebspunkt 2	Δ/Y
Frequenz Betriebspunkt 2	60
Drehzahl Betriebspunkt 2	1776
Nennstrom Betriebspunkt 2	108,67
Leistungsfaktor Betriebspunkt 2	0,88
Wirkungsgrad Betriebspunkt 2	94,5
Effizienzklasse Betriebspunkt 2	IE2

Zusatzoption

Schutzeinrichtung Wicklung	PTC 150°C
Kondenswasserbohrung	✓
Verschlussstopfen	✓
Kondenswasserbohrung	✓
Öldicht	✓

Maßbilder

Drehstrom-Asynchronmotor FWM 280 S 4 /PHE

IE30M28S4008



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