INPUT DATA

core dimensions			slot dimensions		
Slots:	48		b1 =	8 mm	
Poles:	4		b2 =	10 mm	
Rotor bars:	34		h =	27 mm	
	Slots: Poles:	Slots: 48 Poles: 4	Slots: 48 Poles: 4	core dimensions sle Slots: 48 Poles: 4	core dimensions slot dimensions Slots: 48 Poles: 4 b1 = 8 mm b2 = 10 mm

Connection: star

50 Hz

Full load amps:

Service factor: 1.00

PF - cos(fi):

Voltage:

Frequency:

Serial No:

Insulation class: F (155 C)

Enclosure: **closed**

Motor appl: S1

Note:

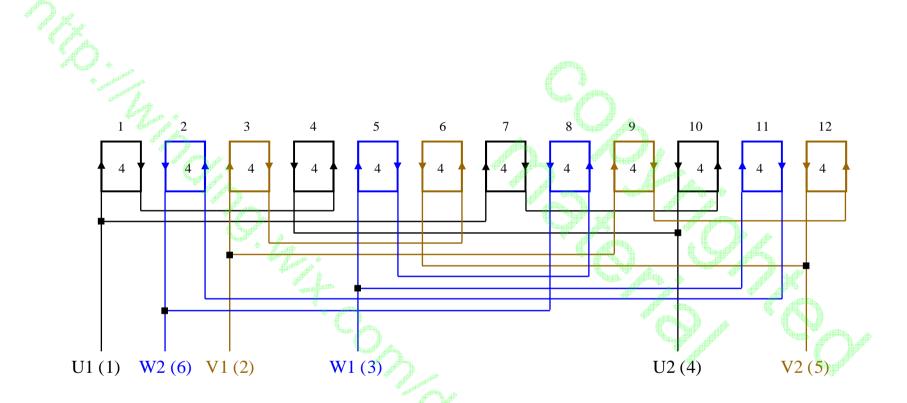
Skewed rotor bars: no. Internal diameter: 220 mm External diameter: 335 mm Total slot depth: **36** mm Length: 238 mm Back iron: 21,5 mm Teeth width 'a': 7 mm Teeth width 'b': 7 mm Number od air vents: 0 Air vent width: 0₀ mm Rotor: squirrel cage

Total slot area: 284,58 mm²

0,25 mm

Ins. thickness:

Three-phase, lap, double-layer winding for 48 slots and 4 poles, (q = 4), 2 circuits Span: 1-11



Fractional turn winding with arangement: 7,8,8,7, adjacent pole

WINDING DATA

THREE-PHASE, 4 - POLE WINDING FOR 48 SLOTS

Winding type:	lap	Air gap density: 0,70 Tesla. (*in allowed range*)
Layers:	double-layer	Teeth density: 1,51 Tesla. (*in allowed range*)
Connection:	2Y, 380 V, 50 Hz	Back iron density: 1,88 Tesla. (*in allowed range*)
Circuits:	2 parallel circuits	Rotor per. speed: 17 m/s rotor speed is OK
Star or delta:	star, adjacent pole	Side effects: - noise: NO, - cogging: NO, - cusp: NO
Span:	1-11	
Slots/phase & pole:	4	W2(6) U2(4) V2(5) Smallest size of T-leads:
Diagram ID:	04804*omitted***	-3 leads: 20,6 mm ²
Turns per slot:	15	-6 leads 20 6 mm ²
Turns per coil:	7,8,8,7	U1(1) V1 (2) W1 (3)
Wires in turn:	6	L1 L2 L3
Wire diameter:	1,32 mm	Note: always try the slot filling with the test coil
Turn area:	8,25282 mm ²	no-load test:
Slot filling factor:	0,435	I ₁ = A, I ₂ = A, I ₃ = A. Voltage = V, Hz.
Winding factor:	0,925	date:

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