

A. Project data

Customer : PARTISANI s.r.l. Forlì (FC) - Italy
 Project / reference : Slip-ring motor 316 kW @ 1.500 rpm
 Offer number : A180341GL

B. Technical data**1. General data**

Type :	RS 400 S4		
Start and duty :	Rotor starter	Max. altitude above sea level :	≤ 1000 m
		Ambient temperature range :	-20°C..40°C
Mode of operation :	S1-100%	Painting :	RAL 7031 moderate C2
Stator connection :	Delta	Application :	Standard
Rotor connection :	Delta	According to :	DIN EN 60034
		Direction of rotation :	counterclockwise / clockwise

2. Constructive data

Form of construction :	IM B3 (IM 1001)	Protection degree :	IP 55
Cooling method :	IC 411	Vibration severity :	A ($v \leq 2,3 \text{ mm/s}$)
Appr. weight :	2.500 kg	Drawing-no. :	RS40B3-172*
Torque translation :	direct coupling	J (Rotor moment of inertia) :	23,0 kgm ²
DE-side bearing:	6324 C3 (FAG or SKF brand)		
NDE-side bearing:	6322 C3 (FAG or SKF brand)		

3. Protection and measurement equipment

Thermal winding protection :	2 x 3 PTC (warning, switch-off)
Anti-condensation heater :	150 W (230 V / 50 Hz / 1~)
Auxiliary terminal box :	not included
Special cooling system :	rip-cooled
Other equipment :	Motor application "Industry" according EN 60034 respectively IEC 34 rules, for an ambient temperature range -20°C.... + 40°C, maximum installation high 1.000 m above sea level, for direct coupling only (no extra-ordinary axial and /or radial forces works on the motor shaft end), special application for vertical erection (with flange, shaft end downwards), slip-ring motor with permanent seated brushes, cast-iron, rip-cooled stator, TEFC (totally-enclosed / fan-cooled), one cylindrical shaft end DE acc. IEC 72-1, with key, half-key balancing, main stator & rotor terminal boxes on top, direction of cable glands ac. order (seen on DE shaft end, rotatable about 4 x 90°), including cable glands, roller bearing application, FAG or SKF brand, deep groove ball bearings, pre-loaded with springs, statistical bearing life-time L(10h) ≥ 65.000 h (with correct maintenance and maximum inclination of +/-3°), manually re-greasing with flat grease nipples M10x1, including documentation in English language, including non-witnessed routine test.

C. Electrical data

1. Rated-parameters

	line parameters:
P (rated power) :	316 kW
cos φ (power factor) :	0,88
η (efficiency) :	93,6 %
U (rated voltage) :	400 V
f (rated frequency) :	50 Hz
n (rated speed) :	1490 rpm
I (rated current) :	583 A
Insulation class :	F (F)
T (rated torque) :	2025 Nm
rel. break-down torque :	4,0
Ld1A (No-load DOL) :	86 dB(A)
U ₂₀ (rotor voltage) :	472 V
I ₂ (rotor current) :	406 A

D. Remarks

- [Sound pressure level L(d1A) in 1 m distance at no-load !!]
- [For direct coupling only !!][For operation in safe areas only !!]
- [* A binding drawing will be available in case of an order only !!]