Siemens □□□ Series Service Manual

1FK7022-5AK71-1LH0

1. Description

1FK7022-5AK71-1LH0

3. Product Information

1FK7022-5AK71-1LH0

SYNCHRONOUS SERVOMOTOR, 1FK7

SIMOTICS S Synchronous servo motor 1FK7 Compact 0.85Nm, 100K, 6000rpm 0.38kW, Naturally cooled Power/signal connectors Connector can be rotated by 270° FRAME SIZE IMB 5 (IM V1, IM V3) FLANGE 1 Absolute encoder 20BIT +12-bit multi-turn with Drive-CLiQ interface (encoder AM20DQ) Derating 10% due to absolute encoder PLAIN SHAFT, TOLERANCE N; WITH HOLDING BRAKE DEGREE OF PROTECTION IP64

Environment related

WEEE (2012/19/EU) Take-Back Obligations

Yes

Compliance with the substance restrictions according to RoHS directive

Since: 22.07.2017

REACH Art. 33 Duty to inform according to the current list of candidates

Information sur la réglementation REACH

SCIP Number

2e642d78-90cb-4e2f-bf9d-79f18de4bf60

Engineering data

Motor type Permanent-magnet synchronous motor

Motor type Compact

Shaft height 28

Cooling Natural cooling

Radial runout tolerance 0.035 mm

Concentricity tolerance 0.08 mm

Axial runout tolerance 0.08 mm

Vibration severity grade Grade A

Connector size 1

Degree of protection IP64

Design acc. to Code I IM B5 (IM V1, IM V3)

Temperature monitoring Pt1000 temperature sensor

Electrical connectors Connectors for signals and power rotatable

Color of the housing without

Holding brake with holding brake

Shaft extension Plain shaft

Encoder system Encoder AM20DQ: absolute encoder 20 bits (resolution 1048576, encoder-internal 512 S/R) +12 bits multi-turn(traversing range 4096 revolutions)