Monitoring deceleration at RF inactive

Translation of the "Original Dokumentation"
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Name: FKT_Ueberwachung_Tieflauf_RF-Entzug_en

Version:

Version: 2019/45	
Change	**Letter symbol**
• Controller card KW-R27 added	STL

Previous version: 2018/44

Product version:

Product (AMK part no.)	**Firmware Version (AMK part no.)**
KW-R06 (O835) KW-R07 (O807) KW-R16 (O872) KW-R17 (O873)	AE-R05/R06 V1.10 2013/15 (204486)
KW-R24 (O901)	AE-R24 V2.03 2015/06 (205587)
KW-R24-R (O954)	AE-R24-R V2.11 2016/46 (206643)
KW-R25 (O902)	AE-R25 V2.03 2015/06 (205588)
KW-R26 (O903)	AE-R26 V2.03 2015/06 (205589)
KW-R27 (O957)	AE-R26 V2.12 2018/40 (207284)
iX / iC / iDT5 /	iX V1.03 2013/18 (204515)
iX(-R3) / iC(-R3) / iDT5(-R3) /	iX V2.08 2015/46 (206017)
ihXT	ihX V1.00 2015/06 (205440)

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1 Monitoring deceleration at RF inactive

Supported hardware:	KW-R06 / KW-R16 / KW-R07 / KW-R17 / KW-R24 / KW-R24-R / KW-R25 / KW-R26 / KW-R27 / iX / iC / iDT5 / iX(-R3) / iC(-R3) / iDT5(-R3) / ihXT /

After removing the controller enable signal (RF), the motor is slowed down and switched torque-free afterwards.

2 Relevant parameters

Parameter	Name	Meaning See document 'Parameter description' (AMK part no. 203704)
ID113 1)	'Maximum speed'	Maximum speed of the motor
ID32773 1)	'Service bits'	Bit 2: activate monitoring of deceleration ramp See 'ID32773 'Service bits' bit 2' on page 6.
ID32782 1)	'Deceleration ramp RF inactive'	Time after removing the controller enable signal up to standstill, valid for the run-down from maximum speed (ID113 'Maximum speed') to speed 0.

1) The parameter value must be set specific to the application

3 Startup instructions

ID32782 'Deceleration ramp RF inactive'

The entered time is valid for the run-down from ID113 'Maximum speed' to speed 0.

4 Development

After removing the controller enable, the motor is slowed down according to ramp ID32782 'Deceleration ramp RF inactive'. Afterwards, the drive is switched torque-free.

The axis automatically is without current and slows down if an axis acceleration is detected by the system during the braking.

The deceleration ramp monitoring can be deactivated with parameter ID32773 'Service bits', Bit 2

Appendix

ID32773 'Service bits' bit 2

Bit no.	Condition	Meaning
2	0	KW-R06 / KW-R07 / KW-R16 / KW-R17 / iX / iC / iDT5 / iX(-R3) / iC(-R3) / iDT5(-R3) / ihXT / KW-R24 / KW-R24-R / KW-R25 / KW-R26 / KW-R27 / Motor deceleration control with RF withdrawal inactive
	1	KW-R06 / KW-R07 / KW-R16 / KW-R17 / iX / iC / iDT5 / iX(-R3) / iC(-R3) / iDT5(-R3) / ihXT / KW-R24 / KW-R24-R / KW-R25 / KW-R26 / KW-R27 / Motor deceleration control with RF withdrawal When braking the motor, no acceleration may be detected by the system, otherwise it is immediately de-energised with the diagnostic message 2339 'Ramp down error'