POSITIONING AND SAFETY DOOR DRIVES

Industrial Motors

Commercial & Appliance Motors

Automation

Digital & Systems

Energy

Transmission & Distribution

Coatings

Reliable, robust and energy efficient





SUMMARY

KFM SAFETY - COMPLETE SOLUTION FOR MACHINE SAFETY DRIVES

Advantages at a glance

Product features

Certified safety features

KFM 05a - POSITIONING DRIVE

Advantages at a glance

Product features

Application







KFM SAFETY

COMPLETE SOLUTION FOR MACHINE SAFETY DOOR DRIVES

Advantages at a glance

Simple

 Teach-In: commissioning of the machine door at the push of a button (Automatic learning of movement direction, dimensions, mass and frictional forces)

Cost-effective

- No end switches or other hardware for door operation required (except where necessary for safety function)
- Minimal wiring

Compact

Space-saving: minimal effort for wiring.
 Often a cabinet is dispensable

Smart

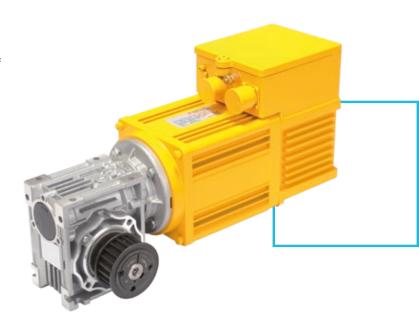
- Partial opening (useful in injection molding for example)
- "Door open" detection
- Torque in the "door-closed" direction before opening
- Short cycle times due to fast door movement

Safe

- Performance Level PL e according to DIN EN ISO 13849-1/-2 and Safety Integrity Level SIL 2 according to DIN EN 61508-1/-2/-3
- TÜV Nord certified safety functions STO, SLS and SLT
- Safety functions provided for by the EN 61800-5-2 standard

Distributed and integrated

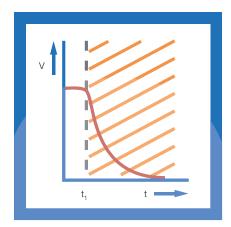
- Integrated EMC filter and versatile input/outputs
- Complete unit including gearbox and pulley



Product features

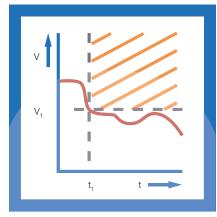
Technical specifications	KFM SAFETY 180	KFM SAFETY 510	
Power supply	230 V ac ±10% 50/60 Hz ±10%		
Nominal power	188 W	512 W	
Nominal torque	1.8 Nm	2.8 Nm	
Rated speed	1,000 rpm	1,750 rpm	
Encoder resolution	2,048 pulses per revolution		
Control signals	2x2 channels for safe digital IN (enable and safety), 4 digital IN 24 V dc ±20%, 5 digital OUT 24 V dc/50 mA short-circuit proof		
Interfaces	RS232, USB, PROFINET (optional)		
Optionals	Control box; brake		
Programming	Software for parameter optimization and functions control		
Certifications	CE, UL, CSA, CCC, TÜV Safety (PL e (Kat 3), SIL2)		

Certified safety features



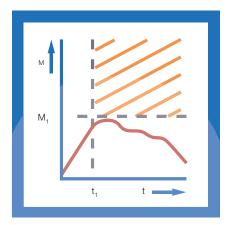
Safe Torque Off

STO: Safe Torque Off The KFM SAFETY is safely switched to torque-free by blocking the IGBT output.



Safe-Limited Speed

SLS: Safe-Limited Speed
 With a speed limit, the kinetic energy
 (energy of motion) is limited (typically
 to 10J).



Safe Limited Torque

SLT: Safe Limited Torque By a torque limitation the force of the door when closing is limited (typically to 150N).





KFM 05a POSITIONING DRIVE

Advantages at a glance

Compact

- No end switches or other hardware required for door operation
- Safety strips, light barriers and light curtains can directly stop the movement of the KFM 05a via the digital inputs

Flexible

- A variety of options such as safety relays, various fieldbus systems and optional integrated holding brake allow easy integration into customer applications
- Customized versions for optimal adaptation to customer needs

Comfortable and easy to operate

- Easy and quick installation/configuration
- Included user-friendly PC software
- Control box for on-site configuration available
- Automatic commissioning of the machine door at the push of a button: automatic learning of movement direction, dimensions, mass and frictional forces

Distributed and integrated Integrated EMC filter and versatile input/outputs Complete unit including gearbox and pulley

Product features

Technical specifications	KFM 05a 180	KFM 05a 310	KFM 05a 510	KFM 05a 500L
Power supply	230 V ac ±10% 50/60 Hz ±10%			
Nominal power	188 W	314 W	512 W	507 W
Nominal torque	1.8 Nm	2.0 Nm	2.8 Nm	1.9 Nm
Rated speed	1,000 rpm	1,500 rpm	1,750 rpm	2,550 rpm
Encoder resolution	2,048 pulses per revolution			
Analog setpoint	AIN1 and AIN2 0-10 V, 0-20 mA, 2-10 V, 4-20 mA, digital 24 V dc			
Positions	16 preset positions (any number via fieldbus)			
Control signals	5 digital IN24 V dc ±20%, 3 digital OUT 24 V dc/50 mA short-circuit proof, 2 relays 30 V 1 A			
Interfaces	RS232, RS422, CANopen (optional), PROFINET (optional)			
Options	Control box; brake			
Programming	Software for parameter optimization and functions control			
Certifications	CE, UL, CSA, CCC			

Application

- Transportation technology
- Lift drives
- Horizontal and vertical conveyors
- Dough kneading and dividing machines
- Positioning drives for linear axis
- Angle positioning

- Handling technique
- Packaging machines
- Belt drives
- Special-purpose machines
- Door and gate drives









Notes	

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Global Presence

With more than 30,000 employees worldwide, WEG is one of the largest electric motors, electronic equipments and systems manufacturers. We are constantly expanding our portfolio of products and services with expertise and market knowledge. We create integrated and customized solutions ranging from innovative products to complete aftersales service.

WEG's know-how guarantees our *Positioning* And Security Door Drives are the right choice for your application and business, assuring safety, efficiency and reliability.



Availability is to have a global support network



Partnership is to create solutions that suits your needs



Competitive edge is to unite technology and inovation







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+49 7144 897360



info-wau-de@weg.net



Pleidelsheim - BW - Germany