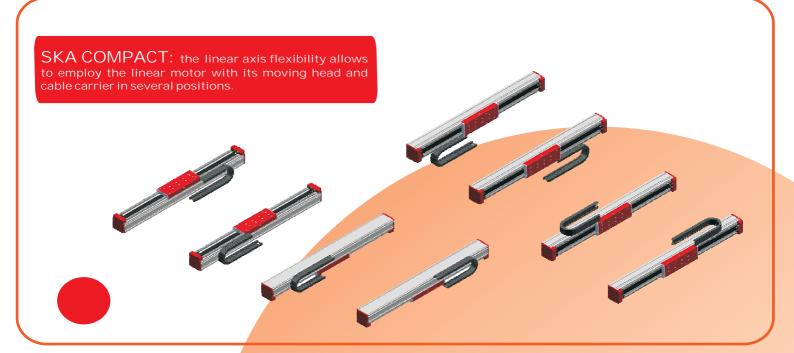


SKA COMPACT

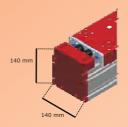
Cutting-edge *all in one* linear axis based on iron core technology. A range of three sizes with aluminium carrying structure. The power components, moving coil and magnetic track, are preassembled and equipped with thermal sensor, moving head, linear guideways, encoder, stroke stopper, cables and cable carrier. A flexible motor payload capacity allows its fitting on any extruded structure side and in any direction.

- o 275N and 550N continuous force (825N and 1650N peak force)
- 5m/s speed
- 5g (50m/s2) acceleration
- o 0,01 to 0,1 mm accuracy
- All mechanical components are completely sealed off for a high degree of protection
- Optional safety brake
- Feedback options: optical or magnetic encoder, Sin Cos, TTL and absolute encoder, Hall Sensor.





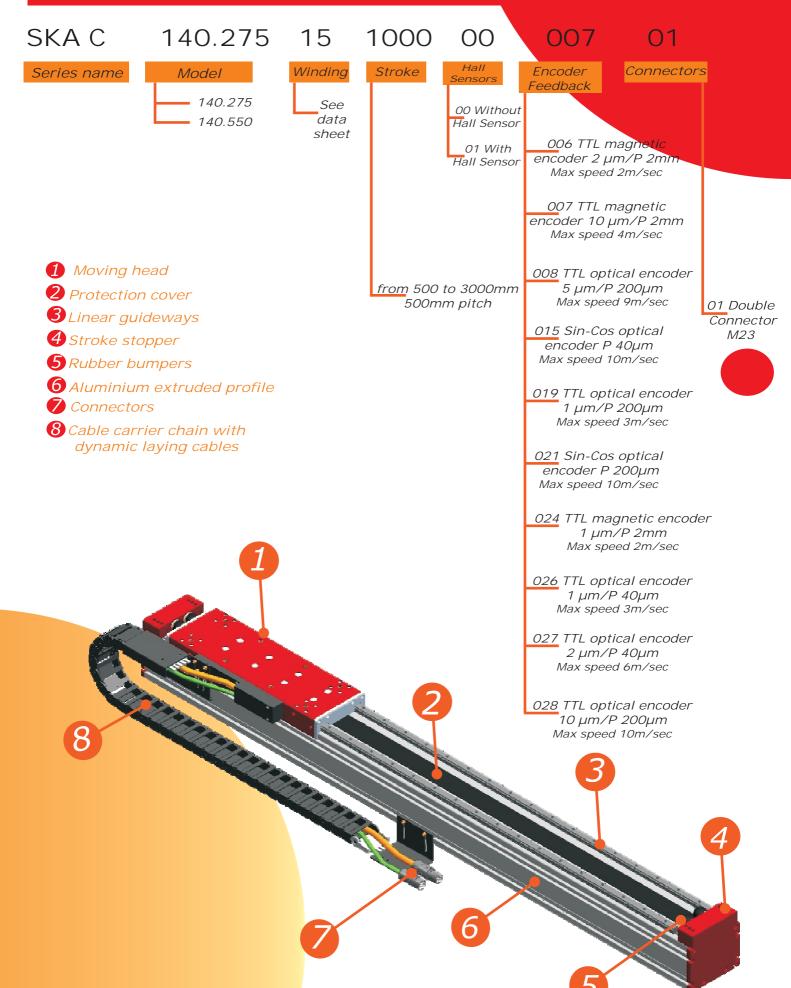
SKA COMPACT



		SKA C 140.275	SKA C 140.550
Peak Force	(N)	825	1650
Continuous Force	(N)	275	550
Speed	(m/s)	5	5
Acceleration	(m/s²)	50	50
Stroke		500 ÷ 3000 mm	



How to order SKA COMPACT





SERIES

SKA COMPACT

TRANSDUCER SERIES PAGE 1

TTL OPTICAL ENCODER P200µm (FEEDBACK	ORDER NR. 008 -	- 019 - 028)				
RATED VOLTAGE	Vn	[Vdc]	5 ± 5%			
RATED CURRENT	In	[mA]	120			
MAX OUTPUT FREQUENCY	F	[MHz]	5			
WORKING TEMPERATURE	Tn	[°C]	0° ÷ + 50°			
ELECTRONIC TYPE			LINE DRIVER AM 26 LS32			
ZERO PULSE			STANDARD			
RESOLUTION	R	[µm]	1 - 5 - 10			
ACCURACY	А	[µm]	± 30 μm/m			
OPTICAL LINE PITCH	Р	[µm]	200			
MAX SPEED	S	[m/s]	It depends of resolution			
SIN COS OPTICAL ENCODER P200µm (FEEDBACK ORDER NR. 021)						
RATED VOLTAGE	Vn	[Vdc]	5 ± 5%			
RATED CURRENT	In	[mA]	120			
MAX OUTPUT FREQUENCY	F	[KHz]	50			
WORKING TEMPERATURE	Tn	[°C]	0° ÷ + 50°			
SIGNAL TYPE		[Vdc]	1 Vpp			
ZERO PULSE			STANDARD			
RESOLUTION	R	[µm]	Function of the interpolator			
ACCURACY	А	[µm]	± 30 µm/m			
OPTICAL LINE PITCH	Р	[µm]	200			
MAX SPEED	S	[m/s]	It depends of interpolator			
TTL OPTICAL ENCODER P40µm (FEEDBACK O	IPDEP NP 026 - 02	27)				
RATED VOLTAGE	Vn	[Vdc]	5 ± 5%			
RATED CURRENT	In	[mA]	120			
MAX OUTPUT FREQUENCY	F	[MHz]	5			
WORKING TEMPERATURE	Tn	[°C]	0° ÷ + 50°			
ELECTRONIC TYPE		[0]	LINE DRIVER AM 26 LS32			
ZERO PULSE			STANDARD			
RESOLUTION	R	[µm]	1 - 2			
ACCURACY	A	[µm]	± 5 μm/m			
OPTICAL LINE PITCH	P	[µm]	<u> </u>			
MAX SPEED	S	[m/s]	It depends of resolution			
WWW.GI EED		[111/3]	it depends of resolution			

DATA SHEET n°: SKAC-2012-04-17



SERIES

SKA COMPACT

TRANSDUCER SERIES PAGE 2

RATED VOLTAGE	Vn	[Vdc]	$5 \pm 5\%$
RATED CURRENT	In	[mA]	120
MAX OUTPUT FREQUENCY	F	[KHz]	250
WORKING TEMPERATURE	Tn	[°C]	0° ÷ + 50°
SIGNAL TYPE		[Vdc]	1 Vpp
ZERO PULSE			STANDARD
RESOLUTION	R	[µm]	Function of the interpolator
ACCURACY	Α	[µm]	± 5 μm/m
OPTICAL LINE PITCH	Р	[µm]	40
MAX SPEED	S	[m/s]	It depends of interpolator
RATED CURRENT MAX OUTPUT FREQUENCY WORKING TEMPERATURE ELECTRONIC TYPE ZERO PULSE RESOLUTION ACCURACY MAGNETIC TAPE PITCH	In F Tn R A	[Vdc] [mA] [KHz] [°C] [µm] [mm]	$5 \pm 2.5\%$ 200 500 $0^{\circ} \div + 50^{\circ}$ LINE DRIVER AM 26 LS32 STANDARD $1 - 2 - 10$ $\pm [0.025 + (0.02^{*}L)]$ (L: stroke length in mt)
MAX SPEED HALL SENSOR	S	[m/s]	It depends of resolution
RATED VOLTAGE	Vn	[Vdc]	5 ÷ 24
=			
RATED CURRENT	ln	[mA]	100

DATA SHEET n°: SKAC-2012-04-17

IRON CORE LINEAR AXES "ALL IN ONE"

MOTOR POWER COMPANY

SERIES

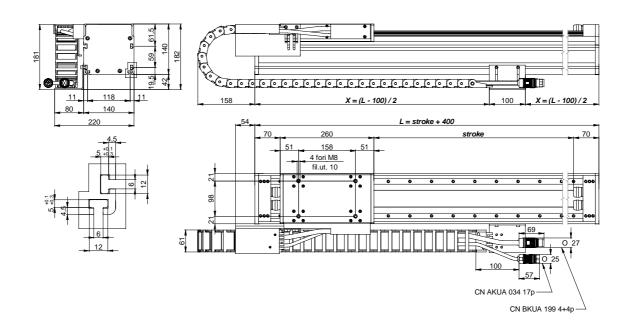
SKA COMPACT 140.275

FORCE [N]

275

-	CINEWAYE FORM	1	1	MINDING TVDF		
	SINEWAVE FORM			WINDING TYPE		
		SIMBOLS	UNITS	15 16 17 31		
MOTOR	Vn drive 3phase 230 V (ac) Vn drive 3phase 400 V (ac)		[m/s] [m/s]	3 2 1.5 1 5 4 3 2		
MOTOR RATINGS	FEATURES Voltage constant ± 5% Pole Pitch Temperature range SKAC. 140.275	Ke P Tr	[Vrms/m/s] [mm] [°C]	55 72 97 116 24 0 ÷ 40°		
	Continuous force (0 m/s) Peak force Force constant ± 5% Rated current (0 m/s) Peak current Phase/phase res. ± 5% a 20°C Phase/phase inductance Electrical time constant Attractive force Dissipated power Thermal resistance	Fn0 Fmax Kf In0 I fmax Rff Lff Te Fm Pd Rth	[N] [N/Arms] [Arms] [Arms] [Ohm] [mH] [msec] [N] [W] [W]	275 825 91 121 161 192 3.0 2.28 1.71 1.43 12.0 9.13 6.84 5.7 4.9 8.8 15 23 68 120 206 325 13.8 1202 96 0.94		
THERMAL PROTECTION	Motor constant Moving head weight Type of thermal cut - off Rated voltage Rated current Operative temperature Resetting temperature Operative time Insulation class	Vn In Tn	[N/\W] [kg] [Vac] [A] [°C] [°C] [ms]	28.1 7 N C : normally closed 250 2.5 130 °C ± 5% 100 °C ± 15°C 1 F		





IRON CORE LINEAR AXES "ALL IN ONE"

MOTOR POWER COMPANY

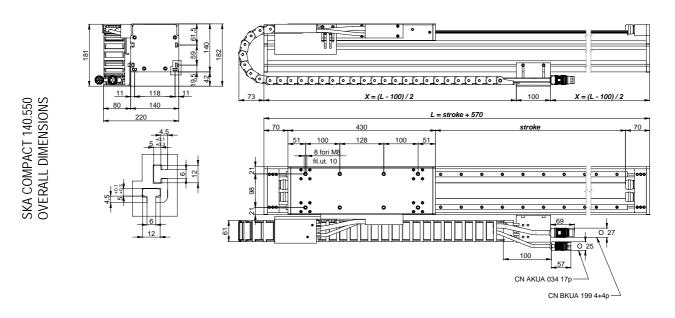
SERIES

SKA COMPACT 140.550

FORCE [N]

550

	SINEWAVE FORM			WINDING TYPE				
-	SINEWAVE FORW	- S	S	WINDING LIPE				
		SIMBOLS	UNITS					
		0,		16 17 31				
ж о								
MOTOR	Vn drive 3phase 230 V (ac)		[m/s]	2 1.5 1				
	Vn drive 3phase 400 V (ac)		[m/s]	4 3 2				
	FEATURES							
	Voltage constant ± 5%	Ke	[Vrms/m/s]	72 97 116				
	Pole Pitch	Р	[mm]	24				
	Temperature range	Tr	[°C]	0 ÷ 40°				
	SKAC. 140.550							
	Continuous force (0 m/s)	Fn0	[N]	550				
S	Peak force	Fmax	[N]	1650				
Š	Force constant ± 5%	Kf	[N/Arms]	113 151 192				
MOTOR RATINGS	Rated current (0 m/s)	In0	[Arms]	4.87 3.65 2.86				
∕2	Peak current	I fmax	[Arms]	19.47 14.59 11.4				
O.R	Phase/phase res. ± 5% a 20°C	Rff	[Ohm]	4.4 7.5 12				
10T	Phase/phase inductance	Lff	[mH]	60 103 162				
2	Electrical time constant	Te	[msec]	13.8				
	Attractive force	Fm	[N]	2405				
	Dissipated power	Pd	[W]	192				
	Thermal resistance	Rth	[°C/W]	0.47				
	Motor constant	Km	[N/√W]	39.7				
	Moving head weight		[kg]	12				
	Type of thermal cut - off	-	-	N C : normally closed				
L ON	Rated voltage	Vn	[Vac]	250				
CTI	Rated current	In	[A]	2.5				
THERMAL PROTECTION	Operative temperature	Tn	[°C]	130 °C ± 5%				
	Resetting temperature	Tr	[°C]	100 °C ± 15°C				
_	Operative time		[ms]	1				
	Insulation class			F				



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