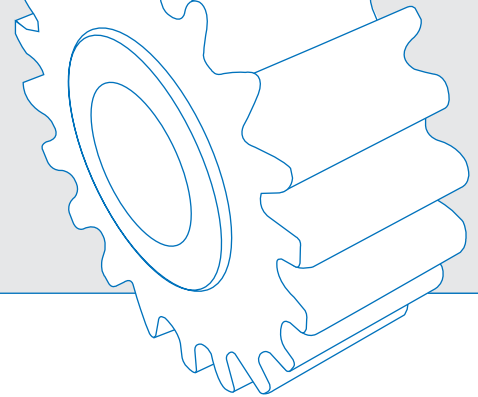


SK 2XOE Frame Size 1-3 Selection Guide

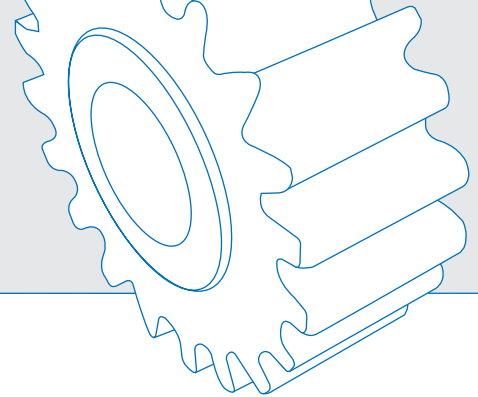


AC Vector Drive Selection			
Series	kW Ratings	Input Voltage	Protection Class
SK 1	E- 2	- 3	4
1 Series			
200: Basic			
210: Basic + Safe Stop			
220: Basic + AS Interface			
230: Basic + Safe Stop + AS Interface			
2 kW Rating			
250: 0.25 kW (0.33 hp)			
370: 0.37 kW (0.50 hp)			
550: 0.55 kW (0.75 hp)			
750: 0.75 kW (1 hp)			
111: 1.11 kW (1.50 hp)			
151: 1.5 kW (2 hp)			
221: 2.2 kW (3 hp)			
301: 3.0 kW (4 hp)			
401: 4.0 kW (5 hp)			
551: 5.5 kW (7.5 hp)			
751: 7.5 kW (10.0 hp)			
3 Input Voltage			
123-A: 200-240V, 1-phase (0.25 - 1.1 kW)			
323-A: 200-240V, 3-phase (0.25 - 4.0 kW)			
340-A: 380-480V, 3-phase (0.75 - 7.5 kW)			
4 Protection Class			
Blank: IP55			
-C: IP66			

(if required)
Programmer/Operation Device
☐ SK CSX-3H: Simple Box (LED Display)
☐ SK PAR-3H: Parameter Box (LCD Plain Language Display)
☐ SK CSX-3E: Panel Mount Simple Box (LED Display)
☐ SK PAR-3E: Panel Mount Parameter Box (LCD Plain Lang Disp.)
☐ RJ12-SUB/D: PC Cable for NORDCON software

Motor Adapter Selection			
Frame Size	Series	# of Input Phases	Protection Class
SK T14 5	1	6	4
5 Frame Size			
Frame Size 1			
- 200-240V, 1-phase: 0.25 - 0.55 kW			
- 200-240V, 3-phase: 0.25 - 1.1 kW			
- 380-480V, 3-phase: 0.75 - 2.2 kW			
Frame Size 2			
- 200-240V, 3-phase: 1.5 - 2.2 kW			
- 380-480V, 3-phase: 3.0 - 4.0 kW			
Frame Size 3			
- 200-240V, 3-phase: 3.0 - 4.0 kW			
- 380-480V, 3-phase: 5.0 - 7.5 kW			
6 # of Input Phases			
1: 1-phase			
3: 3-phase			

(if required)			
Fieldbus/IO Extension Selection			
Module Type	Fieldbus/IO Option	M12 Connection Option	Protection Class
SK 7	8	9	4
7 Module Type (Internal External)			
CU4: Internal Customer Unit			
TU4: External Customer Unit			
8 Fieldbus, I/O Extension Module			
PBR: Profibus Interface			
CAO: CANopen Interface			
DEV: DeviceNet Interface			
IOE: I/O Extension			
9 M12 Connectors for Module I/O			
Blank: Not Required			
CAO: CANopen Interface			



(if required)

SK 2x0E-Specific Customer Unit Selection

200E-Specific Option

SK CU4 -

10	200E-Specific Option
MBR: Internal Brake Rectifier/Control (See note on brake coil volt.)	
REL: Bipolar Signal Conditioning (-10...+10V) and 2x Relay Outputs	

(if required)

Technology Unit-Specific Option Selection

TU-Specific Option Protection Class*

SK TU4 -

* Applies only to external "TU4" units

11	Fieldbus, I/O Extension module
PNT: ProfinNET Interface	
ECT: EtherCAT Interface	
MSW: Maintenance Switch	

(Required for all "SK TU-XXX" modules)

Technology Unit Adapter Selection

Assembly Adapter for TU4* Protection Class*

SK TI4-TU-

* Applies only to external "TU4" units

12	Assembly Adapter for TU4 Technology Units
BUS: For all PBR, CAO, DEV, IOE, PNT & ECT Technology Units	
MSW: For the MSW Technology Unit	

(If required)

Local Potentiometer Operator

☐ SK CU4-POT: Local Speed Pot and L/OFF/R Selector Switch

(If required)

Dynamic Braking Resistor Selection

Assembly Adapter for TU4* Protection Class*

SK

13	Dynamic Braking Resistor Location
BRI4: Internal	
BRE4: External	
14	Dynamic Braking Resistor Rating
1-100-100: 100-120V: 1-phase & 200-240V, 1-phase (all ratings)	
1-200-100: 200-240V: 3-phase (0.25-2.2 kW)	
2-100-200: 200-240V: 3-phase (3.0-4.0 kW)	
1-400-100: 380-480V: 3-phase (0.55-4.0 kW)	
2-200-200: 380-480V: 3-phase (5.5-7.5 kW)	

(If required)

Wall Mount Adapter

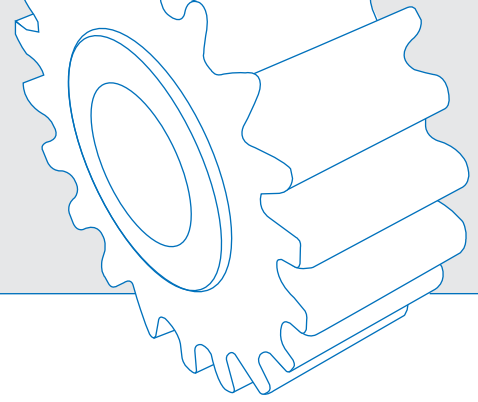
Selection Code for Adapter

SK TIE4-WMK-

15	Wall Mount Adapter Code
1: For drive frame sizes 1 & 2**	
2: For drive frame sizes 3**	
L-1: Fan-cooled, For drive frame sizes 1-2**	
L-2: Fan-cooled, For drive frame sizes 3**	
TU: For external Technology Units	
** See box 5 for frame sizes	

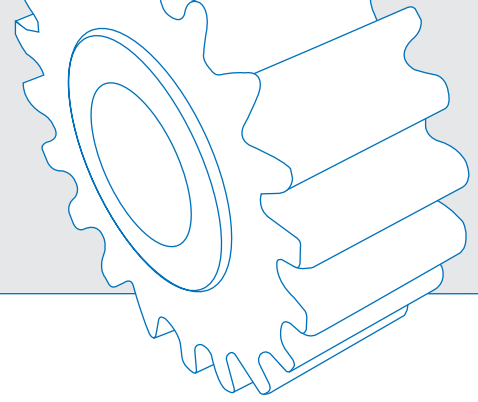
Notes	
• Motor Adapter is required for all drives. • Only 1 Internal CU4 customer unit may be installed per drive (with the exception of the SK CU4-POT). • Only one External TU4 technology unit (or SK CU4-POT) may be installed per drive. • Drive utilizes an internal 24Vdc power supply in order to operate. External 24dc power supplies must not be used with the SK2X0E series. • Required brake coil voltage if SKCU4-MBR is selected.	
Line Voltage (AC)	Brake Coil Voltage (DC)
200-240	105
380-415	180
440-480	205

SK 2X0E Frame Size 4 Selection Guide



AC Vector Drive Selection			
Series	kW Ratings	Input Voltage	Protection Class
SK 1	E- 2	- 3	4
1 Series			
200: Basic			
210: Basic + Safe Stop			
220: Basic + AS Interface			
230: Basic + Safe Stop + AS Interface			
2 kW Rating			
551: 5.5 kW (7.5 hp)			
751: 7.5 kW (10.0 hp)			
112: 11.0 kW (15.0 hp)			
152: 15.0 kW (20 hp)			
182: 18.0 kW (25 hp)			
222: 22.0 kW (30 hp)			
3 Input Voltage			
323-A: 200-240V, 3-phase (5.5 - 11.0 kW)			
340-A: 380-480V, 3-phase (11.0 - 22.0 kW)			
4 Protection Class			
Blank: IP55			
-C: IP66			
Motor Adapter Selection			
Series	Input Voltage		
SK TI4 - 4 -			
5 Input Voltage			
323: 200-240V, 3-phase (5.5-11.0 kW)			
340: 380-480V, 3-phase (11.0 - 22.0 kW)			

(if required) Fieldbus/IO Extension Selection			
Module Type	Fieldbus/IOE Option	M12 Connection Option	Protection Class
SK 6	7	8	4
6 Module Type (Internal External)			
CU4: Internal Customer Unit			
TU4: External Customer Unit			
7 Fieldbus, I/O Extension Module			
PBR: Profibus Interface			
CAO: CANopen Interface			
DEV: DeviceNet Interface			
IOE: I/O Extension			
8 M12 Connectors for Module I/O			
Blank: Not Required			
M12: M12 Connectors Included			
(if required) Programmer/Operation Device			
☐ SK CSX-3H: Simple Box (LED Display) ☐ SK PAR-3H: Parameter Box (LCD Plain Language Display) ☐ SK CSX-3E: Panel Mount Simple Box (LED Display) ☐ SK PAR-3E: Panel Mount Parameter Box (LCD Plain Lang Disp.) ☐ RJ12-SUB/D: PC Cable for NORDCON software			



(if required)

SK 2x0E-Specific Customer Unit Selection

200E-Specific Option

SK CU4 -

9 200E-Specific Option

REL: Bipolar Signal Conditioning (-10...+10V) and 2x Relay Outputs

(if required)

Technology Unit-Specific Option Selection

TU-Specific Option Protection Class*

SK TU4 -

* Applies only to external "TU4" units

10 Fieldbus, I/O Extension module

PNT: ProfinET Interface

ECT: EtherCAT Interface

MSW: Maintenance Switch

(Required for all "SK TU-XXX" modules)

Technology Unit Adapter Selection

Assembly Adapter for TU4* Protection Class*

SK TI4-TU-

* Applies only to external "TU4" units

1 Assembly Adapter for TU4 Technology Units

BUS: For all PBR, CAO, DEV, IOE, PNT & ECT Technology Units

MSW: For the MSW Technology Unit

(If required)

Wall Mount Adapter

Selection Code for Adapter

SK TIE4-WMK-

12 Wall Mount Adapter Code

3: For drive frame sizes 4

TU: For external Technology Units

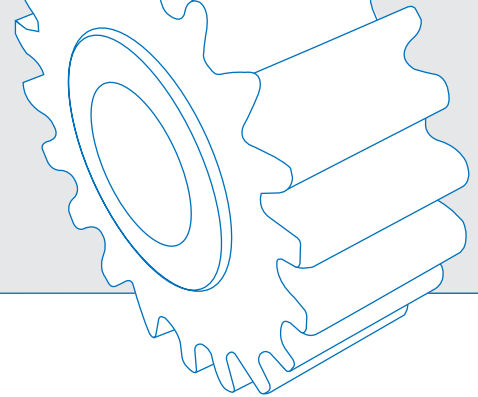
(If required)

Local Potentiometer Operator

☐ SK CU4-POT: Local Speed Pot and L/OFF/R Selector Switch

Notes	
• Motor Adapter is required for all drives. • Only 1 Internal CU4 customer unit may be installed per drive (with the exception of the SK CU4-POT). • Only one External TU4 technology unit (or SK CU4-POT) may be installed per drive. • Drive utilizes an internal 24Vdc power supply in order to operate. External 24dc power supplies must not be used with the SK2X0E series. • SK2x0E Frame size 4 Drives include a rectifier for DC motor brake applications. If a DC motor brake is used and controlled from the SK 2x0E rectifier the following coil voltages must be used:	
Line Voltage (AC)	Brake Coil Voltage (DC)
200-240	105
380-415	180
440-480	205

SK 2X5E Selection Guide



AC Vector Drive Selection

Series kW Ratings Input Voltage Protection Class
SK ① E- ② - ③ ④

① Series

205: Basic

215: Basic + Safe Stop

225: Basic + AS Interface

235: Basic + Safe Stop + AS Interface

② kW Rating

250: 0.25 kW (0.33 hp)

370: 0.37 kW (0.50 hp)

550: 0.55 kW (0.75 hp)

750: 0.75 kW (1 hp)

111: 1.11 kW (1.50 hp)

151: 1.5 kW (2 hp)

221: 2.2 kW (3 hp)

301: 3.0 kW (4 hp)

401: 4.0 kW (5 hp)

551: 5.5 kW (7.5 hp)

751: 7.5 kW (10.0 hp)

③ Input Voltage

112-O: 100-120V, 1-phase (0.25 - 0.75 kW)

123-A: 200-240V, 1-phase (0.25 - 0.55 kW)

323-A: 200-240V, 3-phase (0.25 - 4.0 kW)

340-A: 380-480V, 3-phase (0.75 - 7.5 kW)

④ Protection Class

Blank: IP55

-C: IP66

(if required)

Programmer/Operation Device

- ☐ SK CSX-3H: Simple Box (LED Display)
- ☐ SK PAR-3H: Parameter Box (LCD Plain Language Display)
- ☐ SK CSX-3E: Panel Mount Simple Box (LED Display)
- ☐ SK PAR-3E: Panel Mount Parameter Box (LCD Plain Lang Disp.)
- ☐ RJ12-SUB/D: PC Cable for NORDCON software

Motor Adapter Selection

Frame Size Series # of Input Phases Protection Class
SK T14 ⑤ ① ⑥ ④

⑤ Frame Size

Frame Size 1

- 100-120V, 1-phase: 0.25 - 0.37 kW
- 200-240V, 1-phase: 0.25 - 0.55 kW
- 200-240V, 3-phase: 0.25 - 1.1 kW
- 380-480V, 3-phase: 0.75 - 2.2 kW

Frame Size 2

- 100-120V, 1-phase: 0.55 - 0.75 kW
- 200-240V, 1-phase: 0.75 - 0.55 kW
- 200-240V, 3-phase: 1.5 - 2.2 kW
- 380-480V, 3-phase: 3.0 - 4.0 kW

Frame Size 3

- 200-240V, 3-phase: 3.0 - 4.0 kW
- 380-480V, 3-phase: 5.0 - 7.5 kW

⑥ # of Input Phases

1: 1-phase

3: 3-phase

(if required)

24Vdc Power Supply Selection

Module Type Module Input Voltage Protection Class*
SK ⑦ - 24V - ⑧ ④

* Applies only to external "TU4" units

⑦ Module Type (Internal/External)

CU4: Internal Customer Unit

TU4: External Customer Unit

⑧ Module Input Voltage

123-B: All 100-120V & 200-240V Units

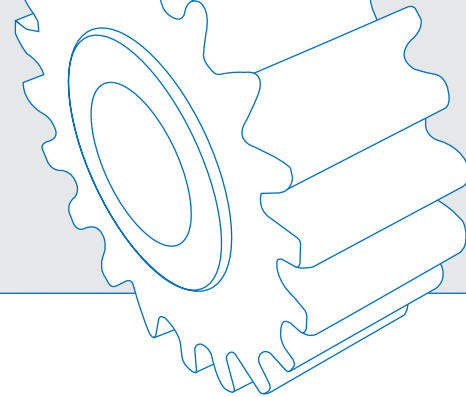
140-B: All 380-480V Units

(if required)

Speed POT & L-O-R Switch

Module Type Module Input Voltage Protection Class*
SK ⑦ - POT - ⑧ ④

* Applies only to external "TU4" units



(if required)

Fieldbus/IO Extension Selection

Module Type	Fieldbus I/O Extension Module	M12 Connection Option*	Protection Class
SK 7	9	10	4

* Applies only to external "TU4" units

9 Fieldbus, I/O Extension Module
PBR: Profibus Interface
CAO: CANopen Interface
DEV: DeviceNet Interface
IOE: I/O Extension
10 M12 Connectors for Module I/O
Blank: Not Required
M12: M12 Connectors Included

(if required)

Technology Unit-Specific Option Selection

TU-Specific Option	Protection Class*
SK TU4 - 11	4

* Applies only to external "TU4" units

11 Fieldbus, I/O Extension module
PNT: ProfinNET Interface
ECT: EtherCAT Interface
MSW: Maintenance Switch

(Required for all "SK TU-XXX" modules)

Technology Unit Adapter Selection

Assembly Adapter for TU4*	Protection Class*
SK TI4-TU- 12	4

* Applies only to external "TU4" units

12 Assembly Adapter for TU4 Technology Units
BUS: For all PBR, CAO, DEV, IOE, PNT & ECT Technology Units
NET: For all 24V and POT Technology Units
MSW: For the MSW Technology Unit

(If required)

Dynamic Braking Resistor Selection

Assembly Adapter for TU4*	Protection Class*
SK 13	14

13 Dynamic Braking Resistor Location
BRI4: Internal
BRE4: External
14 Dynamic Braking Resistor Rating
1-100-100: 100-120V: 1-phase & 200-240V, 1-phase (all ratings)
1-200-100: 200-240V: 3-phase (0.25-2.2 kW)
2-100-200: 200-240V: 3-phase (3.0-4.0 kW)
1-400-100: 380-480V: 3-phase (0.55-4.0 kW)
2-200-200: 380-480V: 3-phase (5.5-7.5 kW)

(If required)

Wall Mount Adapter

Selection Code for Adapter
SK TIE4-WMK- 15

15 Wall Mount Adapter Code
1: For drive frame sizes 1 & 2**
2: For drive frame sizes 3**
L-1: Fan-cooled, For drive frame sizes 1-2**
L-2: Fan-cooled, For drive frame sizes 3**
TU: For external Technology Units
** See box 5 for frame sizes

Notes	
- Motor Adapter is required for all drives. - Only 1 Internal CU4 customer unit may be installed per drive (with the exception of the SK CU4-POT). - Only one External TU4 technology unit (or SK CU4-POT) may be installed per drive. - SK CU4-POT requires module with analog input. SK CU4-24V-1XX-B or SK CU4-IOE must be included. - Drive requires 24Vdc control power in order to operate. The 24Vdc control power may be supplied from an external source or from one of the 24Vdc power supply option modules. - If a DC motor brake is used and controlled from the SK 2x0E rectifier the following coil voltages must be used:	
Line Voltage (AC)	Brake Coil Voltage (DC)
100-120	105
200-240	105
380-415	180
440-480	205