

SAER PUMPS SELECTOR

USER GUIDE

Motor selector

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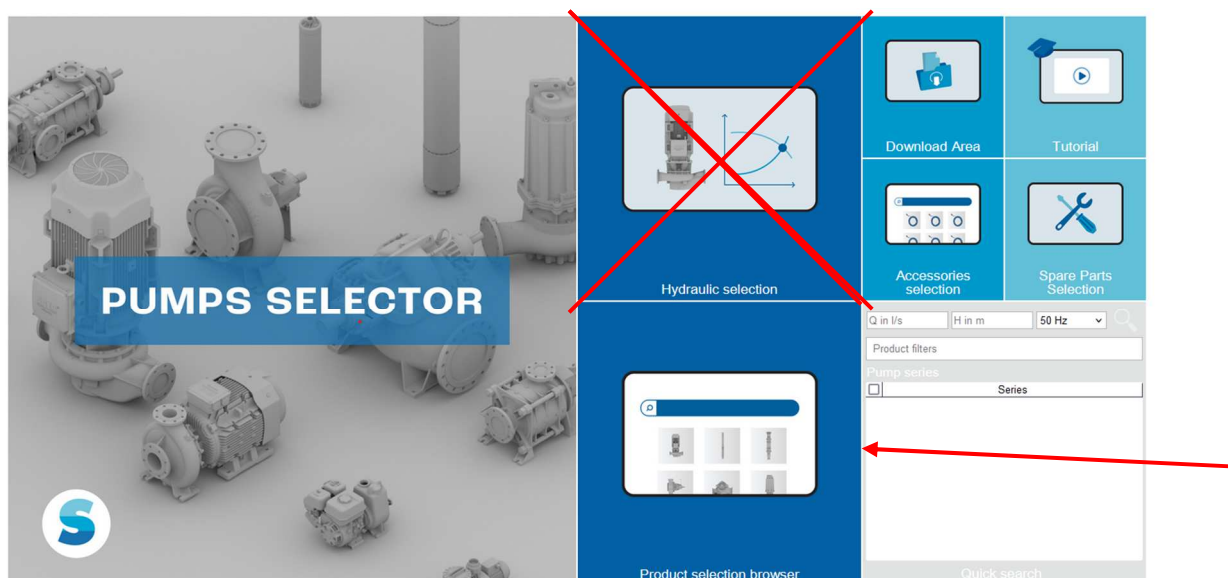
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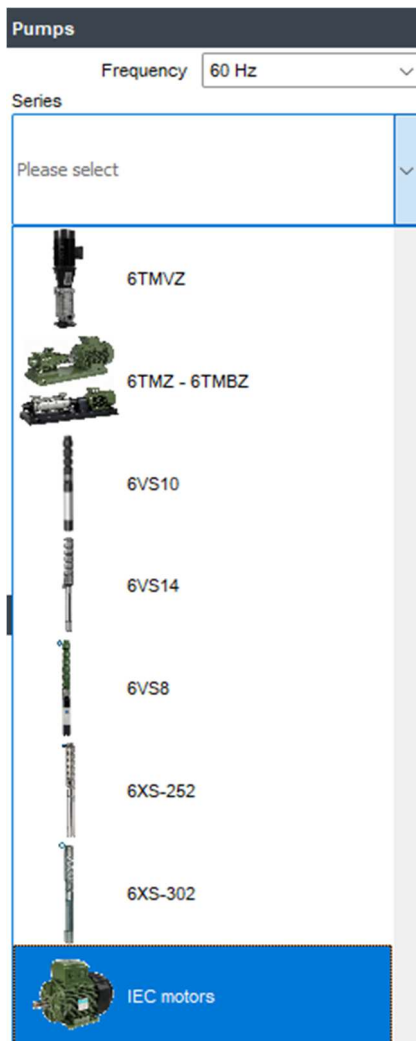
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MAIN PAGE

The motors will only be selectable in the “Product selection browser” and not in “Hydraulic selection”.



We can find the surface motors in the “IEC motors” series both 50 and 60 Hz.



The selection of surface motors (IEC motors)

In the motor search, there are special columns with which filters can be implemented (please refer to the appropriate section for filter use): Product name, motor construction single-phase/three-phase, rated power kW, rated speed 1/min, rated current A, rated torque Nm, rated current and rated torque at start-up and efficiency %.

Frequency	50 Hz			
Series	IEC motors			
Product name	Motor design	1-phase / 3-phase	P _{2n} kW	
MT2-71MC 0,37kW / 0,5HP	SAER MT2 - IE3	3~	0.37	
MT2-71MC 0,55kW / 0,75HP	SAER MT2 - IE3	3~	0.55	
MT2-71ML 0,75kW / 1HP	SAER MT2 - IE3	3~	0.75	
MT2-MTS2-80MC 0,75kW / 1HP	SAER MT2 - IE3	3~	0.75	
MT2-MTS2-80MC 1,1kW / 1,5HP	SAER MT2 - IE3	3~	1.1	

The selection columns on the right and left are set exactly like those for a pump.

For surface motors in the 'Hydraulic selection' it will be possible to choose the efficiency classification between IE3 and IE4.

In this column it will also be possible to select the construction form (B3, B5, etc.), the voltage supply and any additional options if available.

Current configuration

Rated duty point
 A1 [Q: 0m³/h --- H: 0m]

Show less options

Name	Value
Hydraulic selection	
Duty chart	MT2-112MC 4 kW / 5,5 HP
Performance curve	IE3
Motor	
Make	SAER
Main category	3~ motor
Motor design	SAER MT2 - IE3
Frequency, poles	50 Hz - 2 poles
Motor	112-2P-5,5 4 kW
Degree of protection	IP 55
Type of protection	--
Design acc. standard	IE3
Electrical connection	400 V
Type of installation	
Name	B3
Material combination	
Material combination	MT 71-80-90-112-160
Motor housing	Aluminium
Endshields	Aluminium
Feet	Aluminium
Fan cover	Iron
Shaft	Steel

After you selected the desired options, the data in the data sheet will also change respectively of what you selected.

Once the required motor and its specifications has been chosen, click on

Next


or

Finish

















at the

bottom of the page to switch to the project management page and then finish the selection.

FILTERS USE

To simplify motor selection, we recommend the use of filters, which can be set by clicking on the filter icon  next to the series menu or by right clicking on the column you want.

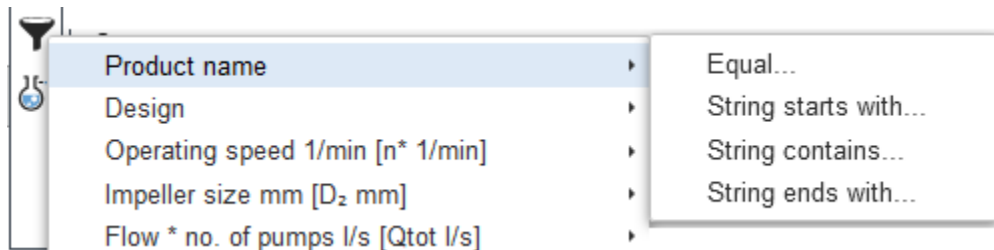
Once you do that, the filter menu will open with the selectable filters (name, design, number of stages...) where we can search the desired information.

	Product name	Motor design	1-phase / 3-phase	P _{2n} kW	Nominal speed 1/min
	MT2-71MC 0,37kW / 0,5HP	↓ Sort ascending		0.37	2838
	MT2-71MC 0,55kW / 0,75HP	↓ Sort descending		0.55	2832
	MT2-71ML 0,75kW / 1HP	Text filter		0.75	2861
	MT2-MTS2-80MC 0,75kW / 1HP			0.75	2899
	MT2-MTS2-80MC 1,1kW / 1,5HP	✓ Sort key		1.1	2893
	MT2-MTS2-80ML 1,5kW / 2HP	✓ Product name		1.5	2873
	MT2-90SC 1,5kW / 2HP	✓ Motor design		1.5	2920
	MT2-90LC 2,2kW / 3HP	✓ 1-phase / 3-phase		2.2	2915
	MTS2-100L 3kW / 4HP	✓ Rated power kW [P _{2n} kW](A)		3	2898
	MTS2-100L 4kW / 5HP	✓ Nominal speed 1/min		4	2898
	MT2-112MC 4kW / 5,5HP	✓ Rated current A [Rated current]		4	2925
	MT2-112ML 5,5kW / 7,5HP	✓ Rated torque Nm		5.5	2928
	MTS2-132SMC 5,5kW / 7,5HP	✓ Starting to rated current (direct starting)		5.5	2946
	MTS2-132SMC 7,5kW / 10HP	✓ Starting to rated torque (direct starting)		7.5	2949
	MTS2-132SMC 9,2kW / 12,5HP	✓ Efficiency (Motor) % [η (Motor) %]		9.2	2949
	MTS2-132SMC 11kW / 15HP			11	2949

54 entries found

ATTENTION! Clicking the column name instead of right clicking or using the funnel, it will not apply any filter, but it will sort the motors alphabetically!

These will be the filtering options:



If the search is not for a text but for a number, the options will instead be 'Equal to', 'Greater than', 'Less than' and finally 'Range' where you can choose a range to search over.

- Equal to: the search characters entered must be **EQUAL** to those given on the selector/catalogue.

Sort key
Product name
Motor design
1-phase / 3-phase
Rated power kW [P_{2n} kW](R)
Nominal speed 1/min
Rated current A [Rated current]
Rated torque Nm
Starting to rated current (direct starting)
Starting to rated torque (direct starting)
Efficiency (Motor) % [η (Motor) %]
All filters on
All filters off
Delete all filter definitions

Equal...
String starts with...
String contains...
String ends with...

Filter

Product name

String contains... 280

Ok Cancel

	Product name	Motor design	1-phase / 3-phase	P _{2n} kW	Nominal speed 1/min
🔍	MTS2-280SMC 75kW / 100HP	SAER MT2 - IE3	3~	75	2970
🔍	MTS2-280SMC 90kW / 125HP	SAER MT2 - IE3	3~	90	2969
🔍	MTS2-280SML 110kW / 150HP	SAER MT2 - IE3	3~	110	2969
🔍	MTS4-280SMC 75kW / 100HP	SAER MT4 - IE3	3~	75	1487
🔍	MTS4-280SML 90kW / 125HP	SAER MT4 - IE3	3~	90	1488
🔍	MTS4-280SML 110kW / 150HP	SAER MT4 - IE3	3~	110	1487

6 entries found (Filter active)

- Equal to: the search characters entered must be EQUAL to those on the sorter/catalogue.
For this reason, it is not recommended to use this function for column searches, except for 'Power'.

Sort key
Product name
Motor design
1-phase / 3-phase
Rated power kW [P_{2n} kW](R)
Nominal speed 1/min
Rated current A [Rated current]
Rated torque Nm
Starting to rated current (direct starting)
Starting to rated torque (direct starting)
Efficiency (Motor) % [η (Motor) %]
All filters on
All filters off
Delete all filter definitions

Equal...
Smaller...
Greater...
Between...

Filter

P_{2n}

Equal... 22

Ok Cancel

	Product name	Motor design	1-phase / 3-phase	P _{2n} kW
🔍	MT2-160LC 22kW / 30HP	SAER MT2 - IE3	3~	22
🔍	MT2-180M 22kW / 30HP	SAER MT2 - IE3	3~	22
🔍	MT4-180M 22kW / 30HP	SAER MT4 - IE3	3~	22

3 entries found (Filter active)

- String starts with: The search characters entered must be **EQUAL** to the beginning of the parameter to be searched for in the reference column;
- String ends with: the search characters entered must be **EQUAL** to the end of the parameter to be searched for in the reference column; this is probably the filter least likely to be used effectively.

ATTENTION! Decimals must always be indicated by a comma and not a dot, otherwise the search will not yield any results.

Filter
✕

Product name

String ends with...

	Product name	Motor design	1-phase / 3-phase	P _{2n} kW
	MT2-71MC 0,37kW / 0,5HP	SAER MT2 - IE3	3~	0.37
	MT2-MTS2-80MC 1,1kW / 1,5HP	SAER MT2 - IE3	3~	1.1
	MT2-112MC 4kW / 5,5HP	SAER MT2 - IE3	3~	4
	MT2-112ML 5,5kW / 7,5HP	SAER MT2 - IE3	3~	5.5
	MTS2-132SMC 5,5kW / 7,5HP	SAER MT2 - IE3	3~	5.5
	MTS2-132SMC 9,2kW / 12,5HP	SAER MT2 - IE3	3~	9.2
	MT4-71ML 0,37kW / 0,5HP	SAER MT4 - IE3	3~	0.37
	MT4-90SL 1,1kW / 1,5HP	SAER MT4 - IE3	3~	1.1
	MT4-112ML 4kW / 5,5HP	SAER MT4 - IE3	3~	4
	MTS4-132SMC 5,5kW / 7,5HP	SAER MT4 - IE3	3~	5.5
	MTS4-132SML 9,2kW / 12,5HP	SAER MT4 - IE3	3~	9.2

11 entries found (Filter active)

- Greater: only values greater than the one entered will be displayed;

Filter
✕

P_{2n}

Greater...

	Product name	Motor design	1-phase / 3-phase	P _{2n} kW	
	MT2-180M 26kW / 35HP	SAER MT2 - IE3	3~	26	
	MT2-200L 30kW / 40HP	SAER MT2 - IE3	3~	30	
	MT2-200L 37kW / 50HP	SAER MT2 - IE3	3~	37	
	MTS2-225SM 45kW / 60HP	SAER MT2 - IE3	3~	45	
	MTS2-250MC 55kW / 75HP	SAER MT2 - IE3	3~	55	
	MTS2-280SMC 75kW / 100HP	SAER MT2 - IE3	3~	75	
	MTS2-280SMC 90kW / 125HP	SAER MT2 - IE3	3~	90	
	MTS2-280SML 110kW / 150HP	SAER MT2 - IE3	3~	110	
	MT4-225SM 30kW / 40HP	SAER MT4 - IE3	3~	30	
	MTS4-225SM 37kW / 50HP	SAER MT4 - IE3	3~	37	
	MTS4-225SM 45kW / 60HP	SAER MT4 - IE3	3~	45	
	MTS4-250ML 55kW / 75HP	SAER MT4 - IE3	3~	55	
	MTS4-280SMC 75kW / 100HP	SAER MT4 - IE3	3~	75	
	MTS4-280SML 90kW / 125HP	SAER MT4 - IE3	3~	90	
	MTS4-280SML 110kW / 150HP	SAER MT4 - IE3	3~	110	

15 entries found (Filter active)

- Smaller: only values smaller than the one entered will be displayed;

Filter

Nominal speed

Smaller...

	Product name	Motor design	1-phase / 3-phase	P _{2n} kW	Nominal speed 1/...
	MT4-71MC 0,18kW / 0,25HP	SAER MT4 - IE3	3~	0.18	1418
	MT4-71MC 0,25kW / 0,33HP	SAER MT4 - IE3	3~	0.25	1421
	MT4-71ML 0,37kW / 0,5HP	SAER MT4 - IE3	3~	0.37	1417
	MT4-MTS4-80MC 0,55kW / 0,75HP	SAER MT4 - IE3	3~	0.55	1439
	MT4-MTS4-80ML 0,75kW / 1HP	SAER MT4 - IE3	3~	0.75	1439
	MT4-90SL 1,1kW / 1,5HP	SAER MT4 - IE3	3~	1.1	1438
	MT4-90LL 1,5kW / 2HP	SAER MT4 - IE3	3~	1.5	1434
	MTS4-100L 2,2kW / 3HP	SAER MT4 - IE3	3~	2.2	1428
	MTS4-100L 3kW / 4HP	SAER MT4 - IE3	3~	3	1431
	MT4-112ML 4kW / 5,5HP	SAER MT4 - IE3	3~	4	1447
	MTS4-132SMC 5,5kW / 7,5HP	SAER MT4 - IE3	3~	5.5	1463
	MTS4-132SMC 7,5kW / 10HP	SAER MT4 - IE3	3~	7.5	1463
	MTS4-132SML 9,2kW / 12,5HP	SAER MT4 - IE3	3~	9.2	1465
	MT4-160LC 11kW / 15HP	SAER MT4 - IE3	3~	11	1475
	MT4-160LL 15kW / 20HP	SAER MT4 - IE3	3~	15	1475
	MT4-180M 18,5kW / 25HP	SAER MT4 - IE3	3~	18.5	1471

24 entries found (Filter active)

- Between: only the values between the two entered parameters will be displayed.

Filter

P_{2n}

Minimal
Maximal

	Product name	Motor design	1-phase / 3-phase	P _{2n} kW
	MTS2-132SMC 11kW / 15HP	SAER MT2 - IE3	3~	11
	MTS2-132SML 15kW / 20HP	SAER MT2 - IE3	3~	15
	MT2-160LC 11kW / 15HP	SAER MT2 - IE3	3~	11
	MT2-160LC 15kW / 20HP	SAER MT2 - IE3	3~	15
	MT2-160LC 18,5kW / 25HP	SAER MT2 - IE3	3~	18.5
	MT4-160LC 11kW / 15HP	SAER MT4 - IE3	3~	11
	MT4-160LL 15kW / 20HP	SAER MT4 - IE3	3~	15
	MT4-180M 18,5kW / 25HP	SAER MT4 - IE3	3~	18.5

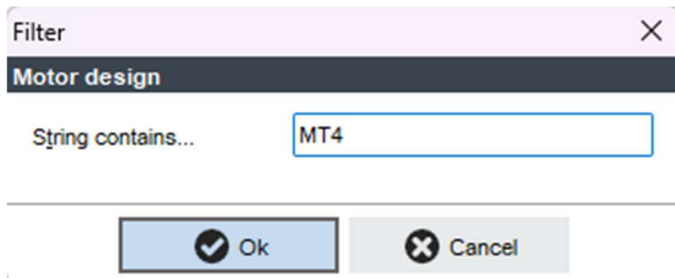
8 entries found (Filter active)

The use of filters is not limited to just one field, for a more precise selection we can enter the number of poles together with kW and amperage or use other parameters as well.

SELECTION EXAMPLE

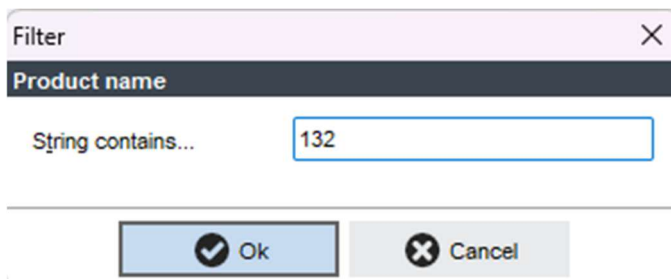
Here is a practical example of how to make the most of the filters.

Let's start by clicking on the funnel icon and selecting the “motor’s design” column, the menu will let you select between MT2-IE3 or MT4-IE3 by halving the series.



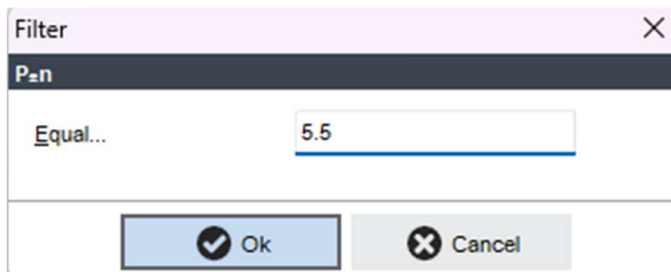
A filter dialog box titled "Filter" with a close button (X). The selected filter category is "Motor design". The filter type is "String contains..." and the input field contains "MT4". At the bottom, there are "Ok" and "Cancel" buttons.

Next, in the “Motor name” column, we go to search with the “Contains...” filter for the desired frame size.



A filter dialog box titled "Filter" with a close button (X). The selected filter category is "Product name". The filter type is "String contains..." and the input field contains "132". At the bottom, there are "Ok" and "Cancel" buttons.

Next we can go to the “Rated power kW” column, “Equal to...2 and type in the desired kW for that motor.



A filter dialog box titled "Filter" with a close button (X). The selected filter category is "P_n". The filter type is "Equal..." and the input field contains "5.5". At the bottom, there are "Ok" and "Cancel" buttons.

Doing so will give the motor with the desired specification.

This shown is only one of several ways to use filters, but certainly the most effective.