

JIS C 4212 Low-voltage three-phase squirrel-cage high-efficiency induction motors
Efficiency of totally enclosed motor (0.2~160kW)

Output rating (unit: kW)	Efficiency (unit: %)					
	2 pole		4 pole		6 pole	
	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
	200V or 400V	220V or 440V	200V or 400V	220V or 440V	200V or 400V	220V or 440V
0.2	70.0	71.0	72.0	74.0	—	—
0.4	76.0	77.0	76.0	78.0	73.0	76.0
0.75	77.5	78.5	80.5	82.5	78.5	80.0
1.5	83.0	84.0	82.5	84.0	83.0	84.5
2.2	84.5	85.5	85.5	87.0	84.5	86.0
3.7	87.0	87.5	86.0	87.5	86.0	87.0
5.5	88.0	88.5	88.5	89.5	88.0	89.0
7.5	88.5	89.0	88.5	89.5	88.5	89.5
11	90.0	90.2	90.2	91.0	89.5	90.2
15	90.0	90.2	90.6	91.0	89.5	90.2
18.5	90.6	91.0	91.7	92.4	91.0	91.7
22	91.0	91.0	91.7	92.4	91.0	91.7
30	91.4	91.7	92.4	93.0	91.7	92.4
37	92.1	92.4	92.4	93.0	91.7	92.4
45	92.4	92.7	92.7	93.0	92.4	93.0
55	92.7	93.0	93.3	93.6	93.3	93.6
75	93.6	93.6	94.1	94.5	93.6	94.1
90	94.3	94.5	94.1	94.5	93.9	94.1
110	94.3	94.5	94.1	94.5	94.5	95.0
132	94.8	95.0	94.5	95.0	94.5	95.0
160	94.8	95.0	94.8	95.0	94.5	95.0

(Remarks) The efficiency is the value measured by 7.3 of JIS C 4212.
It includes the tolerance by 4.2 of JIS C 4212.

JIS C 4212 Low-voltage three-phase squirrel-cage high-efficiency induction motors
Efficiency of protected motor (0.75~160kW)

Output rating (unit: kW)	Efficiency (unit: %)					
	2 pole		4 pole		6 pole	
	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
	200V or 400V	220V or 440V	200V or 400V	220V or 440V	200V or 400V	220V or 440V
0.75	77.5	78.5	80.0	82.0	78.0	80.0
1.5	83.0	84.0	82.0	84.0	82.0	84.0
2.2	83.0	84.0	85.0	86.5	84.0	85.5
3.7	85.0	85.5	86.0	87.5	85.5	87.0
5.5	87.0	87.5	87.5	88.5	87.0	88.5
7.5	88.0	88.5	88.5	89.5	88.0	89.0
11	89.0	89.5	90.0	90.6	89.0	90.0
15	89.5	90.2	90.2	91.0	89.5	90.6
18.5	90.6	91.0	90.6	91.4	90.6	91.4
22	90.6	91.0	91.4	92.1	91.0	91.7
30	91.0	91.4	91.7	92.1	91.4	92.1
37	91.4	91.7	92.1	92.4	91.7	92.4
45	91.7	92.1	92.1	92.7	92.1	92.7
55	92.1	92.4	92.4	93.0	92.4	93.0
75	92.4	92.7	92.7	93.3	92.4	93.0
90	92.7	93.0	93.0	93.6	92.7	93.3
110	93.0	93.3	93.3	93.6	93.0	93.6
132	93.3	93.6	93.3	93.9	93.3	93.9
160	93.9	94.1	93.6	94.5	93.6	94.1

(Remarks) The efficiency is the value measured by 7.3 of JIS C 4212.
It includes the tolerance by 4.2 of JIS C 4212.