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SCNEWTON INC.

SYNCHRO TECHNOLOGY OVERVIEW

INFO@scnewtoninc.com

412-508-6509

"It is a reluctance synchro"

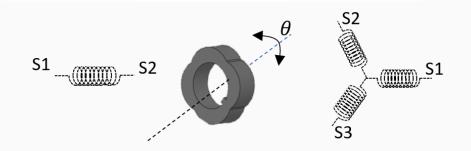
FEATURE:

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- No Transformer stage
- No coil on rotor

ADVANTAGES:

- Reduced manufacturing time
- Higher speed >20KRPM
- Higher temperature >200 C
- Accuracy 60 Arc.min
- Low power consumption <200 mW



"It is simple to manufacture"

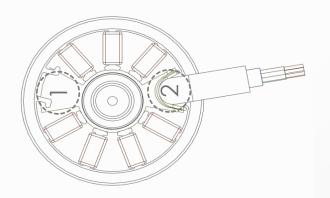
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- Two Thru passages is allocated for lead wire assembly of synchro and the electric motor
- Simplified lamination frames

ADVANTAGE:

• No need for bulky terminals, pigtail is feasible thru synchro



"It has various design option"

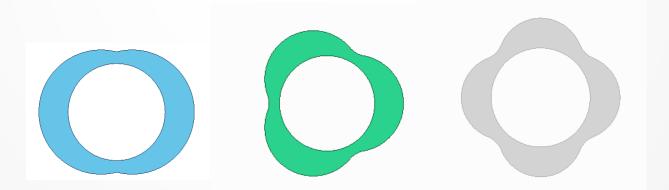
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- Variable number of lopes. [2x,3x,4x]
- Voltage 4-VRMS, Frequency 25-kHz, Ratio: 0.5

ADVANTAGE:

Ease of adaptation for motors with 1P,3P, and 4P number of poles , [P=2N, N=1,2,...,n]



"It is an N-phase synchro"

FEATURE:

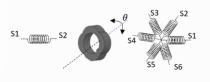
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• Variable number of output phases

ADVANTAGE:

 Reconfigurable for motors with higher number of phases such as 5, 6 and 9 phases





6-phases

— \$3-\$1 — \$1-\$2 — \$2-\$3

S1-S2 - S2-S3 - S3-S4 - S4-S5 - S5-S5 - S6-S1

"It is size scalable"

FEATURE:

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• Due to lack of rotor coils and optimal number of teeth, smaller size is eased for production.

ADVANTAGE:

• Down to size 5.5 and up to size 55".

